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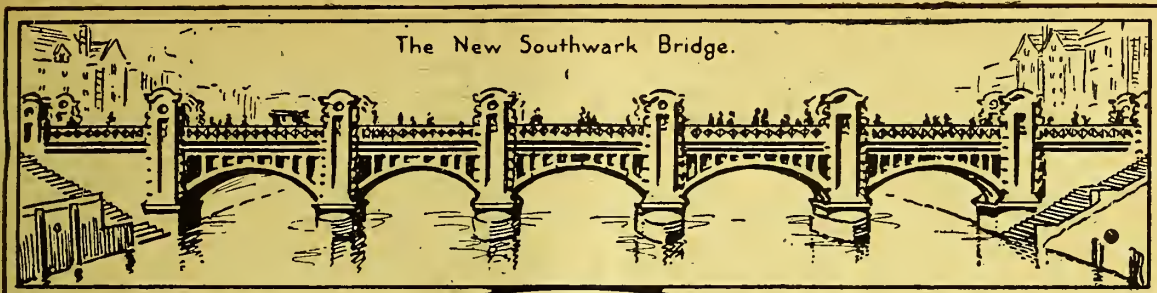
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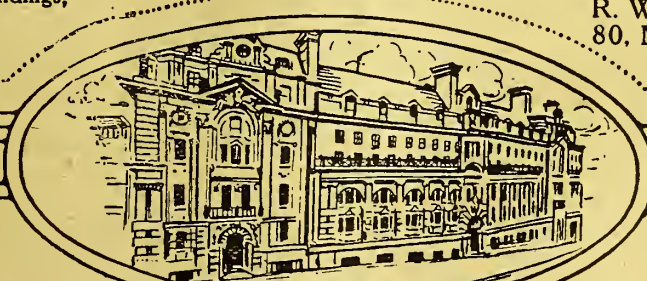
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JUNE 23, 1917

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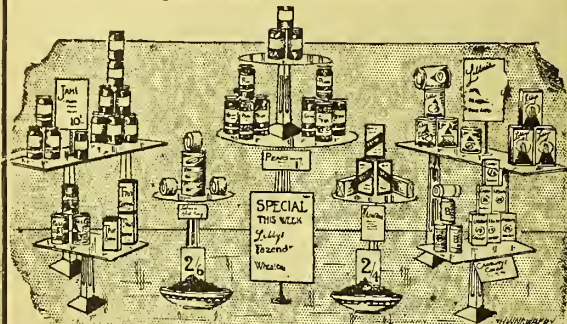
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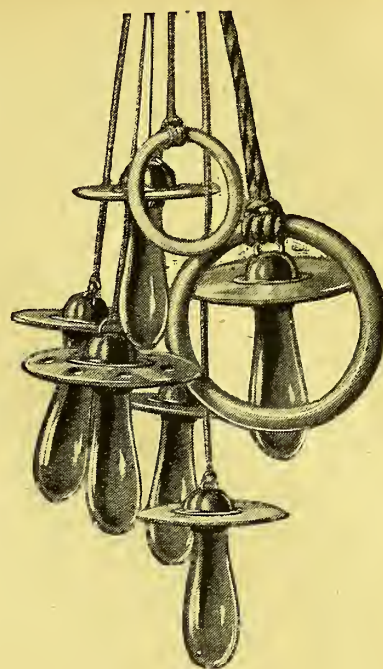
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CASIMIR FUNK, *Journal of Physiology*, Vol. 43, p. 395, 1911; Vol. 45, p. 489, 1913; Vol. 46, p. 173, 1913; Vol. 47, p. 389, 1913.

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Medicine (Pharmacological Section), Vol. 7, p. 1, 1913.

OSBORNE AND MENDEL, *Journal of Biological Chemistry*, Vol. 15, 1913; Vol. 16, 1913.

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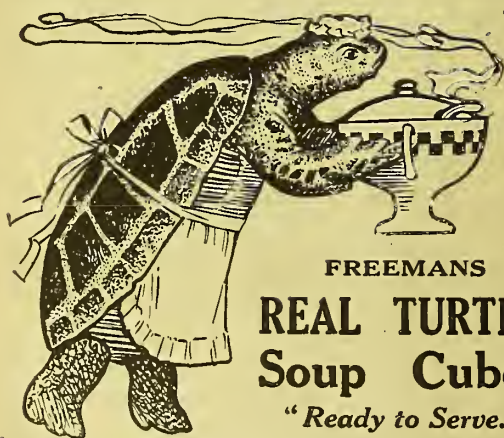
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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, June 24.

Pharmacists' Volunteer Corps, Imperial College Union, Prince Consort Road, South Kensington, London, W., at 10 A.M. Parade. June 26 (8.45 P.M.), Officers and N.C.O.s class; June 27 and 28 (3 P.M.), drills.

Tuesday, June 26.

South-East London Pharmacists' Association, Maitland House, 134 Greenwich Road, at 8.45 P.M. Annual meeting.

Thursday, June 28.

East Anglia Federation of Pharmaceutical Associations, Angel Hotel, Bury St. Edmunds, at 3 P.M. Meeting.

THE ANNUAL MEETING of the Proprietary Articles Trade Association will be held at the Holborn Restaurant, London, W.C., on July 12, at 3.15 P.M. The annual meeting of the Chemists' Defence Association on the same day at 4.15 P.M.

AN AMERICAN FAIRCHILD SCHOLARSHIP of the annual value of \$300 has been founded in the United States. The scheme is on similar lines to the one which has been so successfully in force in the United Kingdom.

European War News.

Import and Export Notices.

FRANCE.—Acetic anhydride, animal black, metallic formates, oxalates, sulphites and hyposulphites, strontium and lithium ores, sabadilla-seed preparations, sulphate of baryta (barytine) and of magnesia, uranium, zirconium, and zircon have been placed on the prohibited-export list.

NORWAY.—The exportation of phosphorus from Norway has been prohibited.

Commissioner for Dyes.

To develop British dye-making, the President of the Board of Trade is establishing a special temporary Department to deal with matters relating to the encouragement, organisation, and regulation of that industry. The Department will be under the direction of Sir Evan Jones, Bart., M.I.C.E., who will have the official title of Commissioner for Dyes. He will act in close consultation with the various dye-making and dye-using interests concerned. Communications should be addressed to Commissioner for Dyes, Board of Trade, 7 Whitehall Gardens, S.W. 1.

Personalia.

MR. PERCY R. E. JOSEPHS, a director of Philip Josephs & Sons, Ltd., has been gazetted as lieutenant in the Royal Naval Volunteer Reserve.

PRIVATE JOHN THOMAS BLADES, East Lancashire Regiment, who has been severely wounded in the chest, was formerly employed by John Riley & Sons, Ltd., chemical-manufacturers, Hapton, Burnley.

SECOND-LIEUTENANT JAMES FREDERICK ADDY, Shropshire Light Infantry, who before the war was manager for Mr. T. N. Moffitt, Ph.C., 209 Crumlin Road, Belfast, has been awarded the Military Cross.

MR. C. J. C. GOODYEAR, South Coast representative of Suttley & Silverlock, Ltd., was gazetted to the Worcestershire Regiment on June 5. Mrs. Goodyear is "carrying on" for him during his absence.

LIEUTENANT WILLIAM INGHAM, Loyal North Lancashire Regiment, has been wounded in action, and is now in hospital in England. Six years ago Lieutenant Ingham was an analytical chemist with Lever Bros., Ltd., Toronto, but on the outbreak of war he resigned and came to England, enlisting as a private.

SERGEANTS B. M. BRANDER, Ph.C., and T. M. Ormiston, chemist and druggist, R.A.M.C., have received commissions as lieutenants in the R.A.M.C. (T.F.), for duty with water columns in France. Lieutenant Brander is a Percira medallist and assistant-editor of THE CHEMIST AND DRUGGIST, and Mr. Ormiston is the eldest son of Lieutenant Ormiston, chemist and druggist, Alloa, N.B.

SECOND-LIEUTENANT ARTHUR FRANKLAND HOLLINGWORTH, R.F.A., son of Mr. F. W. Hollingworth, Ph.C. (Boots, Ltd., Bond Street, Leeds), has been awarded the Croix de Guerre, first class. Second-Lieutenant Hollingworth was recently appointed "liaison" officer, and, going "over the top" with the first wave of infantry, received shrapnel wounds in the neck. The attacking party gained their objective, and Second-Lieutenant Hollingworth was recommended by the Brigadier-General for a decoration. He went to France in April 1915, and received his commission for "efficient services and exemplary conduct on the field," besides being mentioned in despatches.

Miscellaneous.

CERTIFIED OCCUPATIONS.—The immediate publication is announced of a revised list, by the Local Government Board, of certified occupations.

NEW POWERS FOR INSPECTORS OF WEIGHTS AND MEASURES.—Statutory Rules and Orders, 1917, No. 538, authorises inspectors of weights and measures to prosecute offences before Courts of Summary Jurisdiction. The inspectors are authorised to require persons keeping packages of tea for sale to weigh the packages in their presence.

ENEMY FIRM TO BE WOUND UP.—Seitz Works, Tower House, 39 and 40 Trinity Square, London, E.C., manufacturers of wine and spirit filters, and their agents, Kahn & Rothbarth (being the London branch of the Seitz Works, of Kreuznach, Germany), who are also agents of other German manufacturers (gymnastic and electrical apparatus and grain-drying apparatus and plant). Controller: R. E. Smith, 53 New Broad Street, E.C.

ADVERTISEMENTS asking for spices are common in Germany. In most instances the will-be purchaser would be content with "small quantities."

The many friends in Sheffield of Second-Lieutenant R. P. White will be glad to hear that he has received a commission in the Royal Garrison Artillery (*C. & D.*, June 16, p. 33). He was apprenticed to Mr. Geo. Squire, Ph.C., Haymarket, and after passing the Minor in 1914 joined the Royal Army Medical Corps. He became a sergeant, but did not act as a dispenser. After experience in Suvla Bay, Egypt, and France, and being laid by for a time with enteric fever, he became a cadet and is now a second-lieutenant.

Miscellaneous.

MINISTRY OF PENSIONS.—The Secretary's office, Ministry of Pensions, has been removed from Great George Street to Westminster House, Millbank, S.W. 1, to which address all correspondence should be sent.

SURGICAL-DRESSINGS SALE.—The sale is announced, at an early date, of the whole of the machinery and effects of W. J. Vernon, trading as Will Vernon & Sons, of the Surgical-dressing Factory, North Road, Preston.

POISON-LICENCES.—Mr. Wm. Reading, ironmonger, of Norbury, S.W., has applied for a licence to sell agricultural poisons. Winchester City Council has granted a similar licence to Mr. Wm. Jeffery, of St. Peter Street.

WHOLESALE DRUGGISTS' EMPLOYEES.—The National Amalgamated Union of Shop-assistants, etc., report that two London firms of wholesale druggists have signified their willingness to give an additional 1d. on each 1s. of wages, instead of a 20-per-cent. war bonus.

A JULY BANK HOLIDAY.—It is proposed that Monday, July 2, shall be proclaimed a Bank Holiday in the United Kingdom, in order that the staffs of the banks may carry on their work on that day without interruption. It is not intended that the day shall be observed as a general holiday.

TELEGRAPHIC ADDRESSES.—The Postmaster-General calls attention to the fact that only about two-thirds of the telegrams reaching London for registered abbreviated telegraphic addresses contain the appropriate "indicator." The omission causes considerable delay, and the indicator should always be used, as it is an integral part of the address.

BOARD OF SCIENTIFIC SOCIETIES.—A meeting of the Joint Board was held at the Royal Society on June 13, Sir J. J. Thomson, O.M., in the chair. The report of the Executive Committee was received on the work of the previous six months. This dealt, among other matters, with the new scheme of instruction in technical optics.

PETROLEUM DISTRIBUTION.—The following firms and companies have undertaken to carry on the distribution of petroleum products in conformity with the provisions agreed upon by the Pool Board (Petroleum Supplies): Carless, Capel & Leonard, the Gas Lighting Improvement Co., Ltd., S. Bowley & Sons, Ltd., and Meade, King, Robinson & Co., Ltd.

BUSINESS NAMES ACT.—Many firms and individuals have failed to send in their forms of application for registration, or have failed to exhibit their certificates in a conspicuous position at the principal place of business. They are thus liable to heavy penalties. Application should be made without delay to the Registrar, 39 Russell Square, London, W.C. 1.

GUY'S HOSPITAL EXPENSES.—The total expenditure for the last year in the surgery and dispensary department at Guy's Hospital was 7,139l. 13s. 7d., this including drugs, chemicals, disinfectants, etc., 3,507l. 0s. 11d.; dressings, bandages, etc., 1,686l. 4s.; instruments and appliances, 1,797l. 13s. 5d.; wines and spirits, 130l. 16s. 2d.; and sundries, 17l. 19s. The average expenditure on surgery and dispensary for the in-patients has been 1s. 9.7d. each, and for the out-patients 2.51d.

THEFTS.—At Preston, on June 13, Margaret Stewart, single, aged thirty-six, was fined 25s. for stealing three bottles of emulsion, valued at 3s. 6d., from the shop-counter of Mr. John McGavin, chemist and druggist, 110 Friar-gate, Preston. A daring robbery took place at the premises of Boots, Ltd., The Square, St. Annes-on-Sea, last week. The safe was carried upstairs and the back removed. Between 60l. and 70l. in cash was missing, besides several other articles.

THE SALE OF OPIUM AND COCAINE.—At Norwich on June 19, O. B. Wilson, Ltd., chemists, were charged, under the Defence of the Realm Act, with failing to keep a record of sales of opium and cocaine, as required by the Opium and Cocaine Order. The police had notified local chemists that the regulations must be complied with, but on visiting defendants' premises no register was produced. The poison-book showed, however, that cocaine had been supplied once, and that two persons had been supplied with opium on many occasions. These should have been recorded in a special register. A fine of 5s. was ordered for omitting to keep a cocaine-register, and in the case of the sale of opium without a proper record a fine of 20s. was inflicted.

POISONINGS.—The week's fatalities from poison include the following: An engraver named Bedding, living at Lambeth, took potassium cyanide at his place of business in the West-end of London. At the inquest the jury returned a verdict of suicide whilst of unsound mind.—At Brixton an inquest was held on the body of Norah Munro, who had taken eucalyptus oil after a heavy meal. The medical witness agreed with the Coroner that the eucalyptus oil accelerated death, but the immediate cause of death was syncope. The jury returned a verdict of "Death from misadventure."—At Dervock, co. Antrim, a child named Moore drank strychnine solution which he found in a bottle in a field. A verdict of "Death from accidental poisoning" was returned.

FIRES.—The premises of the Morgan Crucible Co., Ltd., Battersea, London, S.W., were damaged by two successive fires which broke out within five hours of each other during the night of June 15 and early morning of June 16.—A slight fire, due to a defective gas-pipe, occurred on June 15 at the warehouse of Marsden & Kay, drysalts and druggists, Anchor Court, Preston.—A fire occurred at Lincoln on June 16 on the premises of Battle, Son & Maltby, chemists and druggists, High Street, about 4.30 p.m., resulting in considerable damage to stock and injuries to two officers of the fire-brigade and to a shop-assistant. The fire broke out in the laboratory in a two-storeyed warehouse at the rear of the shop, but the brigade succeeded in confining it to the warehouse.

RAMSAY MEMORIAL FUND.—A public appeal has been made by the Committee appointed on October 31, 1916 (*C. & D.*, November 4, p. 35), for subscriptions towards a fund of 100,000l. which is to be devoted to the foundation of Ramsay research fellowships and a memorial laboratory of engineering chemistry. Among the subscriptions, amounting to 14,298l., which have already been received are the following:

Brunner, Mond & Co., Ltd., 5,000l.; Lord Glenconner, 1,000l.; Sir Hugh Bell, Bart., 1,000l.; Sir Ralph C. Forster, Bart., 1,000l.; Sir Robert Hadfield, Bart., 1,000l.; Mr. Robert Mond, 1,000l.; Mr. John Brunel Noble, 1,000l.; The President of the British Science Guild, 500l.; Mr. Charles Hawkesley, 500l.; Miss Lillias Noble, 500l.; Mr. James Forster, 250l.; Mather & Platt, 250l.; Mr. Thomas Aikman, 105l.; Dr. Charles Carpenter, 105l.; Mr. A. Chaston Chapman, 105l.; Lord Rayleigh, 100l.; Mr. Alexander Duckham, 100l.; Mr. Rudolph Messel, 100l.; Professor James Walker, 100l.; Lord Moulton, 52l. 10s.; Sir W. E. Garforth, 52l. 10s.; Lord Parmoor, 50l.; Professor W. M. Bayliss, 50l.; Dr. Dugald Clerk, 50l.; The Provost of University College and Lady Foster, 50l.; Dr. Alexander Scott, 26l. 5s.; Spence & Sons, 25l.; Professor W. P. Ker, 21l.; Sir John Brunner, Bart., 20l.; Sir James Dobbie, 20l.; Metrovitch Bros., 15l.; Professor E. G. Coker, 10l. 10s.; Dr. J. A. Voelcker, 10l. 10s.; Mr. G. A. Wills, 10l. 10s.; Mr. S. Badcock, 10l.; Dr. B. Dyer, 10l.; Professor Vaughan Harley, 10l.; Dr. O. Hehner, 10l.; Professor Liversidge, 10l.; Dr. Walter W. Seton, 10l.; Glasgow University Club, 8l. 8s.; Mr. J. G. McGowan, 8l. 8s.; Sir Alfred Pearce Gould, 5l. 5s.; Sir Joseph Larmor, 5l. 5s.; Professor W. M. Simpson, 5l. 5s.; Dr. A. W. Stewart, 5l. 5s.; and Professor G. G. Henderson, 5l.

Irish News.

Brevities.

Mr. J. E. O'Neill, J.P., registered druggist, Maghera, has been re-elected Vice-Chairman of the Londonderry County Council.

Mr. Huston Lancashire, J.P., Ph.C., Ballymena, has been appointed a member of the John Alexander Scholarship Committee in that town.

Sir Bertram Windle last week told an industrial meeting at Cork that certain medicinal plants are now being gathered in Ireland and dried in Cork for use in medicine. This is, he said, a new and profitable business.

The legality of the attitude of the Local Government Board, Ireland, in refusing to sanction the appointment to Poor-law offices of medical men of military age will shortly come before the Courts for decision, states the "Lancet." A conditional order of mandamus was granted recently by the King's Bench, on behalf of the Rathdown Guardians, directing the Local Government Board to exercise their discretionary power of sanctioning the appointment of Dr. D. Boland to the position of medical officer. Sanction had been refused on the ground that the doctor was of military age, and the Guardians submitted that there was no power of refusal when a man was qualified for the appointment. Several other Boards are awaiting the decision in this case.

SPANISH OLIVE OIL.—The production in Spain during 1916 amounted to 207,115 metric tons, against 326,108 m. tons in 1915 and 207,765 m. tons in 1914.

Scottish News.

Edinburgh.

Leith chemists of military age are to appear before the Military Tribunal this week.

Most chemists will require to do without their customary holidays this year, as *locums* are very scarce.

Chemists may expect additional telephone duties to perform so soon as the new doctors' bureaux are in full swing.

"Hairdressers," said a sundries traveller recently, "have eagerly bought up all the glass bottles we had in stock. Even graduated bottles are being used for hair creams and lotions."

Ointments, zinc, boracic, etc., are being retailed in some districts at 4d. per oz. One pharmacist now charges a halfpenny extra when customers desire magnesia, liquorice, or boracic powder in a box.

Displays of rubber sponges, retailing at 6d. and 6½d., are common all over the city. Fewer chemists seem now to stock the ordinary honeycomb sponge, which is both dear and less attractive in appearance.

The following are having either a midsummer or stock-taking holiday on June 25: T. & H. Smith, Ltd.; John Mackay & Co., Ltd.; Duncan, Flockhart & Co.; Pinkerton, Gibson & Co.; and Raimes, Clark & Co., Ltd.

A local chemist had the dilemma of his life the other day. He was to be married at a certain hour on a duly appointed day. The military authorities also called him up for medical examination at the exact time fixed for the ceremony.

Glasgow.

Sales of aniline dyes are becoming quite a feature of Glasgow commercial business. On June 15 aniline dyes and chemical balances were sold by auction in the Masonic Halls, West Regent Street.

Notwithstanding the decision of the Glasgow authority on early closing to take no further action, a mass meeting of traders and shop-assistants has decided to appeal to the Secretary for Scotland to carry out their wishes. They state that they can easily secure the requisite two-thirds majority in favour.

Stirling.

At a recent meeting of Stirlingshire Insurance Committee, it was agreed to pay to chemists a bonus for the year 1914-15 amounting to 25s.

The Stirling chemists' windows are very tastefully dressed with seasonable goods, such as soaps, tooth-pastes, bath-gloves, bathing wings and caps.

India and the East.

(From the "C. & D." Correspondents.)

MR. KEISUKE KOBAYASHI, a leading drug-merchant of Yokohama, has received a gold cup from the Bureau of Decoration for a donation to the educational fund of Yokohama.

CALCUTTA DRUGGISTS AND THE DEFENCE ACT.—The firms of Bathgate & Co., Frank Ross & Co., R. Scott Thomson & Co., and Smith, Stanistreet & Co. have agreed to close their premises from 8 p.m. to 9.30 a.m., in order to enable assistants to attend the necessary drills under the Defence Act.

MILITARY TRIBUNALS.—Thomson & Taylor, dispensing chemists, Bombay, applied for exemption from military service on behalf of Mr. A. Wilkinson and Mr. W. L. Dale, both pharmacists and Volunteers, whose services, the firm claimed, were absolutely necessary for the efficiency of the large dispensing business done by them. The President said it was unlikely that both of them would be called up at the same time. If that was done it was open to the firm to apply to the Officer Commanding, or to the General, or to the Exemption Tribunal.—At Poona on April 20, Mr. Cullen Mather, proprietor of Mather & Co., chemists and general merchants, claimed exemption on the ground that he was the sole European in charge of his business. He was told that so long as he was fit for service the Tribunal had no power to exempt him. His case would be dealt with by the military authorities, so his application was left for the Selection Committee to consider.—At Secunderabad on April 20, Mr. Q. M. S. Abid, managing partner of Abid & Co., Hyderabad, said that he had been placed in Class "A," though totally deaf, and his firm had large military ice-contracts. He had applied for re-examination. The

Tribunal referred him to the Selection Committee.—At Calcutta on April 13, Bathgate & Co. applied for exemption for Messrs. Meldrum, Gibb, Walker, A. Traill, E. W. Whyte, A. G. Lunan, J. Rae, A. B. Gardiner, and A. Chandler, all qualified chemists and druggists. Mr. Meldrum, on behalf of the firm, stated that if the men were called away for general service it meant that their branches must shut down; they had just a sufficient number to carry on their work, and many of their staff were keen Volunteers. After discussion, Mr. Meldrum and Mr. Gibb were totally exempted; Messrs. Walker, Traill, Lunan, and Gardiner's applications were refused; Mr. Rae was exempted from general service until September 1; Mr. Whyte is to be medically examined; and Mr. Chandler was declared medically unfit.

DISINFECTANTS IN PLAGUE.—A report of the Bombay Corporation regarding disinfectants used by the Health Department mentions that since the question was raised in 1906 many of the so-called disinfectants have been found to be of no value whatever for the purpose for which they were used, and the report of the Plague Research Commission in India has confirmed this statement. A report of the health officer declared:

"It seems to me that the various disinfectants tried in Bombay and elsewhere are on the strength of reports made by the various authorities on their efficacy in destroying the life power of various micro-organisms associated with specific diseases. It is impossible to say how far they have been efficacious or how much greater the spread of infectious diseases would have been had they not been used. There is no doubt that many of the so-called disinfectants are mere frauds, and as such may not serve the purpose which they are advertised for."

After a series of experiments the Plague Research Commission found that even the most powerful disinfectants, such as gaseous fumes of burning sulphur and acid solution of perchloride of mercury of full strength, although capable of readily killing all plague germs, even on dung-spread floors and walls and ceilings of living-rooms of plague-infected houses, are not able to kill the rat-fleas, which have been proved to be the principal sources of plague infection in human beings. Many of these disinfectants have been consequently discarded. In the health officer's report, dated December 1915, it is stated that only four varieties of disinfectants—viz., Pesterine, Zondo fluid, sulphur, and Izal powder—are employed now, against nineteen varieties formerly in use.

ALCOHOL FOR INDUSTRIAL PURPOSES.—The Committee of the Indian Merchants' Chamber and Bureau have been informed by the Collector of Bombay that the Indian Government were considering a proposal made by the Government of Bombay whether selected local industries which were seeking to replace imported chemicals by local manufacture should be allowed to purchase Indian manufactured rectified spirit for use in industrial processes free or at a reduced rate of duty of 7½ per cent. *ad valorem*, instead of paying the present rate of duty at Rs. 11.4 per gal., L.P. The Committee were asked to give an expression of their views and information on the following points: (1) What are the industries in which Indian rectified spirit is used or can be used, or in which imported chemicals are replaced or can be replaced by those of local manufacture by the use of Indian rectified spirit? (2) What are the names of the firms or individuals who are conducting those industries or are likely to conduct them? (3) What would be the quantity of rectified spirit used or likely to be used per annum by each firm or individual referred to in (2) above? (4) In the industries referred to in (1) above, would denatured spirit be unsuitable or deleterious? (5) Would it be necessary to impose any safeguards to prevent the misuse of such a concession? If so, what should they be? The Committee stated in reply that alcohol for use in industrial processes should be free of duty, and drew the attention of the Government to their representation dated April 14, 1915, on that very question. Assuming that Indian-manufactured rectified spirit will be made free of duty for use in industrial purposes, the Committee offered the following suggestions regarding the duty on manufactured products containing the spirit: (a) The duty charged on spirit-contents of articles manufactured here and classed as under should be 20 per cent. lower than the duty on the same imported from abroad.—(1) Perfumed spirit manufactured in India; (2) spirit contained in *bona-fide* medicinal preparations. (b) Rectified spirit and absolute alcohol for the *bona-fide* use of colleges, schools and research laboratories, and other educational institutions—may be given duty-free on a requisition being made by the head of any such institutions to the Government. (c) If Indian-made rectified spirit in any of its forms is exported abroad, no duty to be charged in India on such spirits.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

WAR AND DROUGHT.—It may safely be said (writes our Cape correspondent) that the stocks of drugs and chemicals in the various centres of the Union are smaller now than at any period of the war, and higher prices are prevalent in all directions. After a long, dry, sultry summer, the drought has broken and the winter rains have set in just in time, as the Cape Town water-supply had been perilously reduced.

BERRY WAX.—The Secretary for Mines and Industries in South Africa has issued a circular on the utilisation of berry wax, the exports of which from South Africa in 1915 amounted to 16,878 lb., valued at 737l. The greater proportion exported to the United Kingdom found its way to France and the United States. It is mainly used for floor and other polishes, and, to some slight extent, as a hardening substance in the manufacture of margarine.

PERSONAL.—Mr. Gerrish, representing Southall Bros. & Barclay, Ltd., and Mr. Morrell, representing F. Stearns & Co., Detroit, U.S.A., were both in Cape Town when the mail left. When the mail left on April 23 Mr. Hull, of Parke, Davis & Co., Mr. Roger, of Burroughs Wellcome & Co., Mr. Rowson, of C. J. Hewlett & Sons, Ltd., Mr. Watt, of Evans Sons Lescher & Webb, Ltd., Mr. Cook, of Yardley & Co., Mr. Marshall, of L. Piver, and Mr. Walton, of Allen & Hanburys, Ltd., were in Johannesburg.

CUSTOMS DECISIONS.—Among the principal Customs decisions recently notified are the following: Abdominal belts or supports (revised decision), 20 per cent.; benzoate of soda medicinal, 20 per cent.; nickel ear-syringes and trusses, free; Kruschen salts, 25 per cent.; lamb's rubber teats, 3 per cent.; milk of magnesia, Parke, Davis & Co. and Phillips', 20 per cent.; secretogen, 25 per cent.; sodium metal for assay purposes, 20 per cent.; phosphorus, 20 per cent.; spirit gum, 24s. 6d. per imp. gal. or 25 per cent. *ad val.*, whichever duty shall be the greater; Hay's liquid preservative, 20 per cent. There is a rebate of 3 per cent. allowed upon goods of United Kingdom manufacture.

PROFESSORSHIPS VACANT.—Applications are invited for the positions of Professor of Pharmacology, Professor of Pathology, and Professor of Bacteriology at the South African College, Cape Town. The salary in each case will be at the rate of 800l. per annum, increasing to 840l. at the end of three years' service, and thereafter rising by annual increments of 40l. up to 1,000l. per annum. The professors will have opportunities for carrying on research work, but will not be permitted to undertake any work outside of the University work, except by special permission of the Council being first obtained in each case that may arise. The age of the applicant must not exceed thirty-five years. Applications, together with testimonials, should reach the High Commissioner for the Union of South Africa, Victoria Street, London, S.W. (from whom further particulars may be obtained), not later than July 1.

Colonial and Foreign News.

SUGAR SCARCITY.—The use of sugar is forbidden in Munich hotels and refreshment-houses for sweetening beverages.

CAUSTIC SODA cannot be purchased by private persons in Germany, the sale having been stopped by the Government because so many people were making soap from edible fats.

EXPLOSION.—A violent explosion has partly destroyed the Kahlbaum chemical-factory at Adlershof, near Potsdam. Great damage was done and many houses were destroyed.

PLATINUM and similar metals are controlled in Austria by the Government, who are soon to commandeer iridium, osmium, palladium, platinum, and rhodium for war-purposes.

RESTRICTING ADVERTISEMENTS.—An order has been made in Germany forbidding the insertion of advertisements inviting offers for drugs, as this method has a tendency to run up the prices of the goods.

FATLESS WASHING-PREPARATIONS used in Germany are not novel, for they consist essentially of soda (caustic or carbonate), with something else. They must not be called "soap," and the War Committee has fixed 3d. per lb. as the maximum price for them.

A STANDARD WASHING-POWDER is suggested for sale in Germany so as to avoid the delay which would be caused when the new law comes into force if every one of the formulæ used by manufacturers has to be submitted and sanctioned by the War Committee.

FIRST WOMAN, PHARMACIST IN AUSTRIA.—Miss Sophie Tischler has obtained permission to open a pharmacy on her own account, and it has taken a Ministerial Decree to do it, as previously no woman has been accorded such a privilege. Since 1900 Austrian women have been allowed to take up pharmaceutical studies.

PRODUCERS OF BRAZILIAN MATE (herb-tea) have decided to send free to French and Portuguese soldiers 5,000 kilos. of maté each month, and a similar quantity to the Belgian peoples who are under the domination of Germany, this latter to be distributed through the Swiss Red Cross and by the Spanish representatives at Brussels.

BEESWAX COMMANDEERED.—An Order which came into force in Germany on April 10 decrees that any person possessing beeswax of any kind, as well as pressed wax residuo and honeycomb residuo, must deliver it on demand to the War Lubricating Co., Berlin. Producers of beeswax are subject to the same obligation. Requisitioning prices will be fixed by the War Lubricating Co., with the consent of the Imperial Chancellor.

SODA SCARCITY.—In Germany the scarcity of soda salts corresponds to the difficulties which countries outside Germany find in obtaining supplies of potash salts. Advertisements regularly appear in the trade Press asking for sodium bicarbonate and soda-lime in any quantity. The prices of soda in Austria have been subjected to control on account, it is stated, of the "shameless profiteering" which has been carried on with hoarded supplies.

SWISS CHEMICAL PROFITS.—The enormous profits that have been made by the Swiss chemical-industry are alarming German manufacturers. According to the "Pharmaceutische Zeitung" (April 25) the A.G. Chemische Fabrik vormals Sandoz, Basle, for 1916 pay a sum of 1,000f. per share and a dividend of 25 per cent. The employees receive a bonus of more than 400,000f., and large sums are put aside for various funds. Most of the Swiss chemical-factories are now making such large profits that the "Pharmaceutische Zeitung" believes that the German chemical-industry is in danger because of the prohibition of exportation of practically all pharmaceutical and chemical products from Germany. It is beginning to dawn upon the Hun that "the world's markets have found new sources of chemical products, and will learn to do without those of German origin if exportation is not made easier as quickly as possible."

DRUG-CULTIVATION is still receiving great attention in Austria, a special Committee being devoted to promoting the cultivation of medicinal drugs. It recommends the gathering of more than a score of herbs, leaves, and roots, and the cultivation of many more, supplying seeds and bulbs when wanted. It is noteworthy that gardeners and others in the neighbourhood of Munich are warned by a local writer about the dangers of rushing headlong into this business with insufficient knowledge. He mentions several points—*e.g.*, that fennel, aniseed, and other plants are largely cultivated in Germany, but the method would not apply to the Munich district, where the climatic and other conditions differ. This writer further states that the Committee was appointed in Austria in 1910, and concludes that medicinal-herb culture can only succeed and fulfil financial expectations if systematically fostered.

SACCHARIN SCARCITY.—An Austrian paper, referring to the scarcity of saccharin, states that druggists are altogether unable to supply retail purchasers, not only through shortage of saccharin, but also for lack of packing-material and glass tubes; and the distribution to trade and industry is irregular and inadequate. In many cafés the customers have been served with saccharin instead of sugar ever since April 2; in others the supply of saccharin has had to be discontinued; others, again, serve with coffee a lump of sugar and a tablet of saccharin in addition. There are many cafés, however, in Vienna which have not enough sugar, and cannot obtain saccharin, and whose customers have accordingly to be asked to bring their own sweetening-material. Painful scenes take place daily in the druggists' shops. Even those suffering from diabetes are now mostly not able to procure their indispensable supplies of saccharin. The druggists' excuse is that the monopolising of the saccharin-trade has cut off their ordinary sources of supply, and that they can now only obtain very inadequate quantities. The dealers complain of the defective organisation of the retail trade, and also of the premature releasing of the sale before sufficient stocks were available.

Legal Reports.

Sale of Food and Drugs Acts.—At Moneymore Petty Sessions, John McIntyre, Ardagh, was fined 1s., and costs, and ordered to pay 10s., analyst's fee, for selling cream of tartar containing 80 parts of lead in a million, 20 parts being the maximum allowed by law.—At Clacton-on-Sea on July 11, F. W. Smith, Great Clacton, was fined 20s. for selling baking-powder containing gr. of arsenic per lb.—At Abbeyleix Petty Sessions, John Mullen, Abbeyleix, was fined the nominal sum of one penny, and costs, for having sold $\frac{1}{2}$ lb. of crushed linseed which contained only 9.92 per cent. of oil, whereas it should contain at least 30 per cent. The defence was that linseed-meal was supplied in mistake for crushed linseed.

Injunction against a Chemist.—At Tamworth County Court on June 4, A. L. Wootton, draper, sued T. B. Allkins, Ph.C., Market Street, Tamworth, for 50l. and an injunction. The action was in regard to a right-of-way to leasehold premises occupied by plaintiff, which, it was stated, defendant had wrongfully obstructed. By reason of defendant's acts plaintiff's under-tenant determined his tenancy. There was also an allegation that defendant had assaulted plaintiff. Judge Howard Smith, who had viewed the premises, gave judgment for plaintiff for 10l., and granted an injunction against defendant. Damages for the assault were not allowed.

Carriage of Acids.—In the City of London Court on June 14, before Judge Atherley-Jones, K.C., Allen Harding & Co., Ltd., chemical-manufacturers, 1 Leadenhall Street, London, E.C., made a claim against E. W. Honess & Son, 55 Arundel Street, Portsmouth, for 1l. 10s., the value of two empty acid-cases. Plaintiffs' representative said that they supplied the defendants with acid in two cases, and the value of the cases was 12s. 6d. each. They had to be specially made to enable the acids to be sent by railway. When the cases came back the lids had been removed, the wire netting on top destroyed, as well as the partitions, showing that they had been used for housing rabbits. The bottles which had contained the acids were smashed. Judge Atherley-Jones, who suggested that the cases should have been charged for, gave judgment for the plaintiffs, with costs.

Prize Courts.—Sir Samuel Evans, in the Prize Court on June 21, was asked by the Crown to deal with three seizures of essential oils, carnauba wax, and castor oil, captured on the two Scandinavian steamers *Esrom* and *Hilding*, and all consigned by the Stallman Co., of New York, to Wm. Gottschalk, of Copenhagen. Six cases of essential oils, according to Mr. Wright, on behalf of the Crown, were on their way to Julius Grossmann, of Hamburg. They were worth 200l. There were thirty cases of castor oil on the *Hilding*. The oil is specially employed as a lubricant for air-cooled engines. Three bales of canella alba bark were seized on the same vessel. The carnauba wax might also be used as a lubricant. There was 4 tons of it, and this had been sold and had realised 600l. It was similarly on its way to Grossmann, of Hamburg, and would be condemned as absolute contraband with an enemy destination. All the cargoes were condemned.

Liebig Standard Wine.—At Banbridge Quarter Sessions last week, David Gouldman, trading as the Liebig Standard Wine Co., Manchester, sued James Simms, registered druggist, Banbridge, for 7l. 8s. 6d. for goods sold and delivered. There was another case against another Banbridge trader. Defendant said the wine was bad, but plaintiff contended that no complaint as to the quality was made for nearly twelve months, although the account had been furnished every month. A bottle of the wine, stated to be prepared with extracts of meat and malt, was produced in court, and plaintiff, who tasted it, pronounced it as good. Geo. H. Simms, defendant's son, said his father was promised the sole agency for Banbridge for the wine, and also that more was sent than had been ordered. He found that three other shops were selling the wine. He found afterwards that the wine was bad and unsaleable. The Judge held that the goods were not up to sample, or anything like it, and dismissed the case on the merits.

Calls on Shares.—In the City of London Court on June 14, before Judge Atherley-Jones, K.C., Jacobson & Co., Merchants, Ltd., chemical-manufacturers, 17 and 18 Basinghall Street, London, E.C., sued Mr. Hugo Mayer, 79 Coleman Street, E.C., foreign banker, for 49l. 10s. for a call of 5s. per share on 193 shares in the company. Mr. Harold Simmons, for the plaintiffs, said that the defendant's name is on the register of the company, and, *prima facie*, he was liable to pay the calls on the shares. An

application of 1s. had been paid. On April 10 a resolution was passed, and the call for 5s. per share was made. The notice of the call was sent to the defendant, whose solicitor said he was taking proceedings to rectify the register and strike his name off. Defendant had taken no proceedings, and if he had they would have been unsuccessful, because the whole matter was *res judicata*, an action in regard to the allotment-money having been settled in favour of plaintiffs. Mr. Brandon, for defendant, submitted that there was no case to answer, as the action had been instituted without the authority of the company. Judge Atherley-Jones, K.C., found for the plaintiffs, with costs.

Shellac Contracts.—In the King's Bench Division on June 13, a settlement was announced of an action in which Messrs. E. Child & Co., 16 Mincing Lane, London, E.C., sued Mr. Arthur Clayton Duleken, 30 Mincing Lane, for damages for alleged breach of contracts made in 1915 and 1916 for the delivery of shellac and white lac. It was stated that the terms were judgment for the plaintiffs for 500l., and costs. The plaintiffs' claim as presented to the Court was with regard to some nineteen contracts. The plaintiffs were in the habit of placing contracts for the supply of shellac with defendant, with whom the arrangement was to have fourteen days' credit. One of the defences was that the plaintiffs had to pay cash against documents, which was the trade custom, but it was denied that this was the custom between merchants. The plaintiffs said that they had always paid round about fourteen days' credit. In respect of some of the contracts now in dispute no deliveries had been made. Some of the contracts (said Mr. Colam, K.C., for the plaintiffs) were made dependent on prior contracts being run off. The plaintiffs placed a contract for 5 tons of elephant shellac with defendant, but it was later said that the stuff was not of the proper quality, and plaintiffs had to pay 275l., which sum the defendant had to reimburse. Then trouble arose, and the defendant stopped deliveries under the contracts.

Dried-milk Patent.—The nature of a patent action, in respect of the manufacture and sale of dried milk—*J. R. Hatmaker v. Joseph Nathan & Co., Ltd.*, London—was indicated to Mr. Justice Astbury in the Chancery Division on June 15. On behalf of the plaintiff, Mr. Gordon explained the case, and he asked his Lordship to fix a day. He pointed out that the case is complicated in the following way. There are two issues—(a) prior user; (b) infringement of patent—and it has been necessary for him to ask permission to take evidence abroad. He had not, however, obtained the order. The summons came before Mr. Justice Neville, who declined to make the order, and directed that the summons should stand till the trial, to be dealt with by the Court then. But in preparing for the trial it was necessary that they should know how they stood upon these issues. Either they must go into them beforehand or the case must be tried with the suppression of them. He did not wish to come to court with an imperfect case. The character of the evidence he desired to get on commission was as follows: The question of infringement depended on the process of manufacture in France and upon the importation from France of dried milk. Much turned on the process by which the milk is dried. The evidence of a French expert was required who could not be spared to come to this country. On the other score, the question of prior user, the plaintiff had a witness who also is engaged on Government business abroad, and could not be got back, and he would give rebutting evidence upon this point. He asked that the case be fixed to come on upon July 12. Mr. Justice Astbury said it was impossible for him to make the order. He could not defer a long case like this to the middle of July. Counsel must get his affidavit in the shortest number of days possible. Mr. Hunter Gray, K.C., on the defendants' behalf, urged that the plaintiff had had every advantage, and his Lordship said the matter must be brought before him a week that day.

Alleged Breach of Contract.—In the King's Bench Division on June 20, Mr. Justice Atkin began the hearing of an action brought by the Associated Enterprises, Ltd., Royal Liver Building, Liverpool (a subsidiary company of Lever Bros., Ltd., Port Sunlight), against Brunner, Mond & Co., Ltd., chemical-manufacturers, Winnington, Northwich, Chester, in respect of alleged breaches by the defendants of an agreement of June 5, 1913, entered into between the parties. The defendants denied that they had committed any breaches of agreement. Sir John Simon, K.C., for plaintiffs, said that the case raised questions as to the right of the parties under the agreement. The plaintiff company was owned by Lever Bros., Ltd., who had had supplies of alkali from time to time from the defendants for the making of soap. The plaintiffs' case, in substance, was that the defendants have disregarded their obligations

under the agreement in that they had promoted or assisted in the carrying-out of certain arrangements made in the name of Joseph Crosfield & Sons, Ltd., and Wm. Gossage & Sons, Ltd., with Price's Patent Candle Co., Ltd., and Price's (China), Ltd., for the sale of the undertakings, property, and assets in China of Crosfield & Sons and Gossage & Sons, and also of Price's Candle Co. and Price's (China), Ltd., to a new company to be formed for the purpose of acquiring and working the same. The plaintiffs said that this was contrary to the agreement, as the latter provided that the businesses of Crosfield & Sons and Gossage & Sons should be conducted for the mutual benefit of the plaintiffs and the defendants to the exclusion of third parties. The plaintiffs alleged that Brunner, Mond & Co. had obtained and exercised complete control over the businesses of Crosfields and Gossages, and a situation would be created which might bring them into competition with the plaintiffs. The defendants denied the alleged breaches of the agreement. They denied that they had exercised control over the conduct or policy of the businesses of Crosfields or Gossages, and they pleaded that what had been done was within their rights, and was for the carrying-on of the businesses more beneficially for the shareholders, including the plaintiffs. The case is still proceeding.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

MARTIN PHILLIPS & Co., LTD. (P.C.).—Capital 1,500*l.* Objects: To carry on business as manufacturers of and dealers in toilet-articles and metal goods, patent-medicine proprietors, etc. R.O., 29 Harling Street, Camberwell, London, S.E.

ORISAL, LTD. (P.C.).—Capital 1,000*l.* Objects: To carry on the business of chemists, druggists, manufacturing chemists, manufacturers of and dealers in mouth-washes, tooth pastes and powders, etc. R.O., 77 George Street, Portman Square, London, W. 1.

TULLITE, LTD. (P.C.).—Capital 5,400*l.* Objects: To carry on business as manufacturers of refractory materials and articles capable of being made therefrom or used therewith, manufacturers of and dealers in crucibles, etc. R.O., 39 Victoria Street, London, S.W.

STAFFORDSHIRE CHEMICAL CO. (1917), LTD. (P.C.).—Capital 50,000*l.* Objects: To take over the business of the Staffordshire Chemical Co., Ltd., and to carry on the business of manufacturers of and dealers in chemicals and chemical products, etc. The first directors are W. Simmons, representing the Coking Co., Ltd.; W. Hill, representing the Midland Coal, Coke, and Iron Co., Ltd.; A. M. Henshaw, representing the Talk-o-th'-Hill Colliery, Ltd.; and S. Henshaw.

FULLERS' EARTH UNION.—The directors recommend a further dividend of 5 per cent. on the ordinary shares, making 9 per cent. for the year.

G. B. KENT & SONS, LTD., have declared the usual dividend at the rate of 5½ per cent per annum upon the cumulative participating preference shares for the six months ended March 31, 1917.

CHEMICAL COMPANIES CONSOLIDATE.—"The Times" learns that arrangements have been concluded whereby the interests of Chance & Hunt, Ltd., have been consolidated with those of Brunner, Mond & Co., Ltd. No alteration in the name of the company is intended, and no material change of administration is at present contemplated. The scheme was devised by Mr. Edgar P. Chance, one of the managing directors of Chance & Hunt, Ltd., and third son of Mr. Alexander M. Chance, who in 1898 formed Chance & Hunt, Ltd., by an amalgamation of the Oldbury Alkalite Co. and William Hunt & Sons.

A. J. WHITE, LTD.—The directors' report for the year ending March 31, 1917, states that the net profits amount to 16,048*l.* 3*s.* 11*d.* With the exception of the French branch the business at all points is thoroughly sound and healthy, and the volume of business done at the head office and branches has been well maintained. Having regard to the necessity of conserving the company's interests, the directors are unable to recommend the payment of a dividend. After bringing forward the sum of 13,345*l.* 5*s.* 5*d.* from last year's accounts, and adding the net profit for the year, there remains a balance of 29,393*l.* 9*s.* 4*d.*, out of which provision has been made for writing off the amount of the income-tax paid in March last—viz., 5,172*l.*

Personalities.

SIR WILLIAM CROOKES, O.M., F.R.S., will be eighty-five years of age on June 24.

MR. J. S. BATTLE, Ph.C., has been elected a member of the Council of the Lincoln Chamber of Commerce for three years.

LORD RHONDDA, the President of the Local Government Board, has been appointed Food Controller in place of Lord Devonport.

MR. G. H. GOWER, manager at Yarmouth for Prentice Bros., Ltd., chemical manufacturers, has been appointed a magistrate for the borough.

SIR COOPER PERRY, M.D., F.R.C.P., of Guy's Hospital, has been elected Vice-Chancellor of the University of London in succession to Sir Alfred Pearce Gould.

MR. W. C. HOWE, who has represented Butler & Crispe, druggists' sundriesmen, 80-82 Clerkenwell Road, London, E.C., for some years, has resigned owing to ill-health.

MR. J. H. CHANTRY, pharmacist, of Winchester House, Totland Bay (I. of W.), has been appointed Organist of the Needles Lodge of Freemasons, of which he is a Past Master.

MR. THOMAS TYRER, F.I.C., F.C.S. (T. Tyrer & Co., Ltd., Stratford), underwent an operation for cataract last week, but it is gratifying to know that he is making satisfactory progress.

MR. F. R. WOODHOUSE, chemist and druggist, Sedbergh, *à propos* of the caterpillar-plague in Yorkshire, is quoted in the "Yorkshire Post" as having made experiments to show the preference which caterpillars have for grass.

W. BRO. HENRY J. DALGLEISH, P.P.G.D. Devonshire, has been appointed one of the special stewards at the great bi-centenary meetings of the Grand Lodge of England, to be held at the Royal Albert Hall on June 23 and 24.

MR. A. E. RICHMOND, chemist and druggist, Jetty Road, Yarmouth, took his seat last week as a new member of the Town Council, and was welcomed by the Mayor, who congratulated him on the fact that his son had been awarded a commission for good service in the field.

The twenty-fifth anniversary of the commencement of the teaching of pharmaceutical chemistry at the University of Athens by Professor A. C. Dambergis was celebrated on May 13 (see *C. & D.*, March 31, p. 37). The Celebration Committee, consisting of professors, members of the Health Council, naval and military officers, and pharmacists, went to the house of Professor Dambergis and presented him with a marble bust of himself, subscribed for by his colleagues, collaborators, and pupils. Speeches were delivered by Professor A. Vournazos (a member of the Health Council) and by the Ministers of the Interior and of Public Instruction, the Rector of the University, the President of the Health Council, the Seniors of the Faculties of Physical and Mathematical Sciences and of Medicine, and the Presidents of the Pharmaceutical and Medical Societies. Professor Dambergis, thanking those who had contributed to the celebration, said it honoured not only him but also science generally.

LORD HUGH CECIL recently stated in the House of Commons that he did not know who Bengier was (see *C. & D.*, May 26, p. 39). The same ignorance does not exist in the drug-trade nor with those who live in the everyday world. **MR. F. BADEN BENGIER** was born in 1840 and died in 1903. He was the originator of the Bengier preparations and founder of Bengier's Food, Ltd., Otter Works, Manchester. The Christian name Baden he received from his mother, whose ancestors in the seventeenth century changed the older form Bawden to Baden. The name Bengier was formerly Berenger, as appears from an old pedigree of the family. The coat-of-arms of the Bengier family is given here. **MR. F. A. BADEN BENGIER**, a director of Bengier's Food, Ltd., is a nephew of the founder.



SALICYLIC TREATMENT.—Dr. Richard Cannon, Valparaiso, Chili, writing to the "Lancet," states that he used salicin in the treatment of rheumatism in 1862. He thinks this entitles him to be known as the discoverer of the salicylic treatment of rheumatism.

Births.

BOOTH.—At 12 Kingsway, Wallasey, Cheshire, on June 10, the wife of Parkin S. Booth (accountant to the Association of Manufacturing Chemists, Ltd.), of a son.

MORGAN.—At the Dental Pharmacy, Kimbolton, on June 17, the wife of H. J. Morgan, M.P.S., of a daughter.

Marriages.

LINDSAY-WHITELAW.—At the Cowal Hotel, Dunoon, on June 12, by the Rev. R. F. Lindsay (brother of the bridegroom), assisted by Captain T. Jones, Chaplain of the Forces (B.E.F.), and the Rev. T. Ramsay (brother-in-law of the bride), John Martin White Lindsay, pharmacist and optician, Maybole, to Emma, youngest daughter of ex-Baillie Whitelaw, Dunoon.

MALLET-CLITHEROE.—At St. Saviour's Church, Alexandra Park, London, N., on June 9, by the Rev. Seymour Isaacs, M.A., Gunner Clarence Charles Mallett, R.G.A., youngest son of Mr. and Mrs. T. J. Mallett, 66 Victoria Park, Cambridge, to Emilie, youngest daughter of the late Mr. and Mrs. George Clitheroe, Dublin.

SENIOR-McDOUGALL.—At Dalton-in-Furness, on June 6, Charles Senior, chemist, Northampton, to Harriet McDougall, Dalton-in-Furness.

Silver Wedding.

HUNTRODS-HIRST.—At Burley Lawn Chapel, Leeds, on June 17, 1892, by the Rev. E. Bowcock, Heckmondwyke, Walter Huntrods, of West Hartlepool, to Jenny Hirst, of Kirkstall. Present address: Holbeck Moor, Leeds.

Deaths.

BRETON.—At 52 Park Hill, Moseley, Birmingham, on June 7, Mr. Harvey Wolstenholme Breton, chemist and druggist, aged seventy-six.

LINDSAY.—At Port Elizabeth, South Africa, on April 29, Mr. James Robert Lindsay, chemist, aged thirty-eight. Mr. Lindsay, who passed the Minor examination in 1903, was the eldest son of the late Robert Lindsay, chemist, and Mrs. Lindsay, 52 High Street, Peebles.

ROBERTSON.—At 5 Queen Street, Arbroath, on June 17, Jane Eliza Sturrock, beloved wife of Mr. John Robertson, chemist and druggist, aged sixty-six.

TOMKINS.—At Denman, N.S.W., on February 21, Mr. W. Kingston Tomkins, chemist and druggist (G.B.). Mr. Tomkins qualified in 1888, and in 1914 went to Australia, registering in New South Wales. In March 1914 he opened a business at Bankstown, a suburb of Sydney, but some eight months ago removed to Denman, where he established a pharmacy with appreciable success. Deceased leaves a widow.

TURNER.—At Dingle Hill, Lydney, Glos., on June 8, Mr. Henry Prosser Turner, chemist and druggist, aged seventy. Mr. Turner, who was born near Ross, went to Lydney at the age of twenty, and had been established in that town for fifty years. He took an active interest in parochial affairs.

Died on Service.

COX.—Private William H. Cox, Queen's Royal West Surrey Regiment, has died of wounds received in France, aged thirty-eight. He was the youngest son of Alderman Arthur H. Cox, founder of Arthur H. Cox & Co., Ltd., and was a director of that company. On the outbreak of war he joined the Royal Garrison Artillery, but obtained a transfer to the Queen's Royal West Surrey Regiment. Mr. Cox was principally engaged in literature, and had chambers in London and also a villa in Corsica residing chiefly in Corsica until the outbreak of war.

DUNSTALL.—Pioneer A. H. Dunstall, Signal Company East Anglian Royal Engineers, formerly on the Bedford staff of Boots, Ltd., chemists and druggists, has been killed in action.

CAMPBELL.—Captain Norman Phillips Campbell, R.E., who was killed in action on May 3, was up to the time he joined the Army in 1914 Professor of Science at Trinity

College, Kandy, Ceylon. He came home to England, and received a commission, being subsequently engaged with the Chemical Section of the Royal Engineers. He was a Fellow of the Chemical Society, and leaves a widow and two children.

HERRITY.—Private J. W. Herrity, Army Cyclist Corps, who was in the employ of E. Griffiths Hughes, Ltd., chemists, Deansgate Arcade, Manchester, was killed on June 1.

LATIMER.—Reported missing on July 1, 1916, Lance-Corporal William Latimer, Royal Irish Rifles, is now officially returned as killed. He enlisted from J. & J. Haslett, wholesale druggists, North Street, Belfast, and leaves a widow and two children.

McNAY.—Private John McNay, 9th Highland Light Infantry (Glasgow Highlanders), previously reported missing on July 15, 1916, is now officially presumed killed. He was only son of Mr. David McNay, chemist and druggist, Kilmarnock.

ROWLANDS.—Private Stanley Rowlands, R.A.M.C., who has died in Egypt, was formerly an apprentice with Mr. B. Taylor Lloyd, pharmacist, Great Darkgate Street, Aberystwyth. While he was on duty the dispensary tent caught fire, and he died from shock following severe burns.

TREHEARN.—Lance-Corporal Alfred W. Trehearn, M.G.C., died of wounds on April 12. He was the second son of Mr. W. T. Trehearn, of Spratt's, Ltd., and enlisted in the Royal Fusiliers in August 1914, and went to France eleven months afterwards. He was subsequently transferred to the Machine Gun Corps, and it was in an attack on a German position that he received a wound in the neck, from which he succumbed at the casualty clearing station.

WALKER.—Corporal Thomas Bernard Walker, Honourable Artillery Company, was killed in action on April 18, aged twenty-six. Corporal Walker was the only son of Mr. A. Walker, the stationmaster of the Midland Railway station, Nottingham, and passed the Minor examination in January 1913. Before the war he was manager at Vines & Fromme, chemists, 64 Aldersgate Street, London, E.C. He joined the Army at the end of 1914, and went out to France in August 1915. He was attached to his battalion stretcher-bearers most of the time, and was appointed corporal and medical orderly about the end of last year. He was awarded the Military Medal in December last for bravery in the field, and subsequently received a bar to the medal for a further courageous act. To his parents his colonel has written: "Since he joined this battalion in France in September 1915 he carried out his duties magnificently. His devotion to his work of tending the wounded, often under the most difficult and dangerous circumstances, and his self-sacrifice, were a by-word in the battalion."

WROC.—Lance-Corporal W. Wroc, Royal Welsh Fusiliers, who has fallen in action, was for thirteen years on the staff of Thomas Beecham, pill-manufacturer, St. Helens.

New Books.

Directory and Chronicle of China, Japan, the Straits Settlements, Indo-China, etc. 1917. 9 x 6 in. Pp. 1,719. 3s. net. (Hong-Kong Daily Press, 131 Fleet Street, London, E.C. 4.) [This Directory covers the whole of the ports and cities of the Far East, from Netherlands India to Siberia, in which Europeans reside. Each settlement is prefaced by a description which is revised annually. Besides the usual alphabetical lists of firms, the Directory gives classified lists of trades and professions. Other features include notable events of the year, texts of all the most important treaties concluded with Eastern Asia, maps and plans, Customs tariffs, trade regulations, etc.]

Baillière's Popular Atlas of the Anatomy and Physiology of the Female Human Body. 16½ x 9 in. 3rd edit. 4s. net. (Baillière, Tindall & Cox, 8 Henrietta Street, Covent Garden, London, W.C. 2.) [This consists of three lithographed plates of the female human body, one of which is arranged in layers so that the internal organs can be studied. The plates show different aspects—muscles, veins, arteries, etc.—and smaller figures illustrate on a larger scale particular parts of the body. The plates have been drawn by Dr. G. M. Dupuy, and the accompanying descriptive text is by Dr. Hubert E. J. Biss. The atlas is well suited for use by physiology students and nursing and first-aid classes. It is very satisfactory to note that the excellent coloured lithographic work is entirely British, and marks the end of the virtual monopoly which Germany before the war enjoyed in the production of this class of educational publications.]

Pharmaceutical Society of Ireland.

Council-meeting.

THE MONTHLY MEETING of the Council was held at 67 Lower Mount Street, Dublin, on June 12. Mr. James Tate, President of the Society, presided. The following members of the Council were also present: Mr. James Michie (Vice-President), Mr. G. D. Beggs (Hon. Treasurer), Dr. J. A. Walsh, Dr. A. J. Barnes, Messrs. W. F. Wells, J. H. Bowden, William Doig, Thos. N. Moffitt, D. M. Watson, John Smith, and A. Owen Wells.

THE LATE MR. PETER MACEWAN.

The PRESIDENT, referring to the death of Mr. Peter MacEwan, late Editor of THE CHEMIST AND DRUGGIST, said that a shining light in the world of pharmacy had passed away since their last meeting. He had not had the privilege himself of knowing Mr. MacEwan personally, but, judging by the articles from his pen which appeared from time to time, he concluded that he was a man with powers above the ordinary. They, as Irish pharmacists, are certainly a great deal the poorer by his death. He believed they had considered him as one of themselves, as far as the interests of their Society were concerned. Mr. MacEwan took a deep interest in all matters pertaining to their craft, and he was sure they all mourned his loss. It would not be too much to say that they would not look upon his like again. It was their sorrowing duty to pass a vote of condolence with his widow and family.

The vote of condolence was passed in silence, the members standing.

Mr. W. F. WELLS said it was likely that he had known Mr. MacEwan for a longer period than any other member of the Council present. From the first time that he had gone to the British Pharmaceutical Conference he had been in the habit of meeting Mr. MacEwan, and he had always looked upon him as a good and true friend. It was fitting that they should have passed the vote of sympathy which the President had so nicely proposed in reference to Mr. MacEwan as the Editor of their official journal. But Mr. MacEwan had a greater claim upon their Society than that which arose from his position as Editor of THE CHEMIST AND DRUGGIST. Whenever the representatives of the Society went to London in connection with Pharmacy Bills the first place they visited was 42 Cannon Street. They always saw Mr. MacEwan, whose good advice was of great help to them on those occasions. He supposed that there was no man, not only in the United Kingdom, but in all the world, who possessed a greater knowledge of pharmacy than Mr. MacEwan. In Mr. MacEwan's death the Society has lost a good friend, and he (Mr. Wells) felt personally that he had lost a very good friend also.

Mr. WATSON said there is no question whatever that pharmacy in general has suffered by the death of Mr. MacEwan. Irish pharmacy in particular has suffered. When representatives of the Society went to London, Mr. MacEwan, even on publishing days, when he was overwhelmed with work in connection with his paper, was ready to receive them. For some years he had known Mr. MacEwan officially, and in more recent years he had got to know him in a much more personal manner. About a fortnight before his death he had a characteristic letter from him, full of the breezy spirit which he displayed during all the time of their acquaintance.

Mr. BEGGS referred to the courtesy which he had always experienced from Mr. MacEwan when he had occasion to consult him.

Dr. WALSH wished to associate himself with the tribute to the memory of Mr. MacEwan, whom he had gone to see many times in company with Mr. Wells and other members of the Society, and from whom they had always received the same courtesy.

Mr. SMITH said he first met Mr. MacEwan in Edinburgh, when he was Secretary of the North British Branch, and on that occasion Mr. MacEwan treated him with characteristic kindness. He had gone to attend the Minor examination, and he had a letter of introduction to Mr. MacEwan from a friend in Dublin. He also bore testimony to the assistance which Mr. MacEwan was ever ready to extend to the Pharmaceutical Society of Ireland and to its members.

Mr. DOIG said he did not know Mr. MacEwan personally, but when he was first elected a member of the Council Mr. MacEwan, who came from a place some miles from where he was born, wrote him a personal letter of congratulation.

MR. MACEWAN'S SUCCESSOR.

Mr. WATSON proposed that they convey their congratulations to Mr. S. W. Woolley on his appointment as Mr.

MacEwan's successor. Many of them were personally acquainted with Mr. Woolley.

Mr. W. F. WELLS seconded. Mr. Woolley was, he said, a very able man, and would be a very able successor to Mr. MacEwan. He knew that the Pharmaceutical Society of Ireland had Mr. Woolley's sympathy. For many years he had attended the Conference, and it was always a pleasure to meet him and converse with him.

The PRESIDENT, in putting the motion, said that anyone who had been trained under such a princely pharmacist as Mr. MacEwan could not be other than a man of vast knowledge.

The motion was passed unanimously.

REPLIES TO VOTES OF CONDOLENCE.

The Registrar (Mr. A. T. Ferrall) submitted a letter from Dr. J. A. Walsh, returning thanks for the vote of condolence passed by the Council on the death of his son, Second-Lieutenant M. Oliver Walsh, who was killed in action.

The Registrar also submitted a letter from Mr. G. H. Batt, Ph.C., returning thanks for the vote of condolence on the death of his father, Mr. Thomas Batt, a member of the Council.

CERTIFICATE OF DEATH.

The Registrar submitted a certificate of the death of Mr. Robert Telford, Ph.C., M.P.S.I., late of Banagher, King's County.

PRELIMINARY REGISTRATION.

Mr. Jeremiah Costello, who submitted a certificate from the Intermediate Education Board for Ireland, was admitted to Preliminary registration.

DELEGATES TO THE B. P. CONFERENCE.

The Registrar submitted a letter from Mr. R. R. Bennett, Hon. Secretary British Pharmaceutical Conference, inviting the attendance of delegates from the Council at the meeting on July 11. The President, Vice-President, and Dr. Barnes were appointed delegates.

CHANGES OF ADDRESS.

The Registrar submitted communications from the following notifying changes of address:

Mr. Lawrence A. Kenny, Ph.C., to the Medical Hall, Tullow, co. Carlow.

Mr. T. A. Delahunty, Ph.C., to the Pharmacy, Strand Street, Skerries, co. Dublin.

Mr. A. McCurdy, Ph.C., to the Alexandra Pharmacy, 46 York Road, Belfast.

Mr. T. A. Sheirecliffe, R.D., to 27 and 28 Dublin Street, Clonmel, co. Tipperary.

Mr. Ernest D. Moran, R.D., to Clifden, co. Galway.

Mr. George C. Hewson, R.D. to 42 Haddington Road, Dublin.

CO-OPTION OF A MEMBER.

Mr. SMITH proposed that Mr. Victor E. Hanna, Ph.C., be co-opted a member of the Council, in the room of the late Mr. Thomas Batt. He thought Mr. Hanna would be a very worthy and efficient member of the Council. He had a great deal of experience of pharmacy, especially on the commercial side, and he was well known to a great many of the members of the Society throughout the country.

Dr. BARNES had great pleasure in seconding. He had been associated with Mr. Hanna in the commercial pharmaceutical matters to which Mr. Smith referred, and he could say that he was a man of extreme energy and that he had all things pharmaceutical thoroughly at heart. He believed he would make a most useful addition to the Council.

Dr. WALSH supported the motion.

Mr. Hanna was unanimously co-opted, and was afterwards elected a member of the Law, House, Certificates, and Declarations Committees.

ELECTION OF AUDITOR.

On the motion of Mr. W. F. WELLS, seconded by Mr. BOWDEN, Dr. J. A. Walsh was unanimously elected auditor, to fill the vacancy caused by the death of Mr. Batt.

NOMINATIONS.

The following were nominated for membership:

Mr. Ion A. Clarke, Ph.C., Main Street, Portrush, co. Antrim.
Mr. J. B. Faichney, Ph.C., Medical Hall, Graigue, co. Kilkenny.

Mr. Robert H. Kerr, Ph.C., 8 Mount Street, Ballymena, co. Antrim.

Mr. Thomas McGettigan, Ph.C., 14 Market Street, Strabane.

Mr. James Meban, Ph.C., Dunard, Broughshane, co. Antrim.

Mr. H. C. Meyrick, Ph.C., 11 and 12 Commercial Street, Aberdare, South Wales.

Mr. Francis Loughnan, Ph.C., Ballinrobe.

Mr. John Carney, R.D., Ardee, co. Louth, was nominated for election as an associate druggist.

Reports received from the Law Committee and the House Committee were adopted.

Trade Notes.

GLYCERONE is a glycerin substitute which is being supplied by the Keene Co., 50 Gray's Inn Road, London, W.C. 1.

WINDOW-FITTINGS.—A set of these, as supplied by W. Davis, 100 Wood Street, London, E.C. 2, are figured in an advertisement in this issue.

THE UNION JACK BRAND OF GLUCOSE is made in a special quality for use by manufacturing chemists. The manufacturers are Garton & Co., York Place, Battersea, S.W. 11.

MELLIN'S FOOD.—The new prices for Mellin's food, which have been in force since June 1, are given in the advertisement of Mellin's Food, Ltd., Marlboro' Works, Peckham, S.E. 15.

CARMEX should be shown in chemists' windows during "Baby Week"—July 1-7. The advertisement of William Browning & Co., Albert Works, Park Street, London, N.W. 1, explains the reason.

"COW AND GATE" FOODS.—The revised price-list of the West Surrey Central Dairy Co., Ltd., Guildford, is given in this issue. The list deals with the three varieties of "Cow and Gate" milk foods, and gives prices and terms.

PYRAMID CORKS.—N. W. Mitchell & Sons, Ltd., cork-merchants, Bouchon Works, 2 Dod Street, Limehouse, London, E. 14, have registered a pyramid device for dispensing-corks, which is shown in their advertisement. The corks are in future to be known as Mitchell's Pyramid corks.

HONEY is a perfect substitute for sugar. J. H. Ironmonger, Ltd., 20 Eastcheap, London, E.C., publish in this issue prices for Cuban, Californian, and Jamaica honey in original packages. The public are being educated into the uses of honey for sweetening purposes, and chemists are finding many uses for it in unofficial preparations.

CASTOLS.—The bulk of the castols "biscuits" is to be reduced in consequence of the shortage of sugar, but the medicinal strength remains as before. The new war-emergency castols will be issued so soon as the present stocks are exhausted. Thos. Kerfoot & Co., Bardsley Vale, the manufacturers of castols, propose to issue a neat counter-card for the purpose of explaining the alteration to customers.

IMMERSION-OIL.—Flatters & Garnett, Ltd., opticians, 309 Oxford Street, Manchester, have sent us a sample of an improved immersion-oil, which they have produced for microscopic use. The refractive index is 1.510 at 30° C., and, as the oil is the result of a systematic research for an improved product, it has been submitted to a series of tests which prove it to be all that is claimed for it. It sells in bottles at 9d., 1s. 4d., and 4s. each, and is supplied in bulk for manufacturing houses.

LEVER'S EXPORT SHOWROOM.—We referred recently to the opening of a new export showroom by Lever Bros., Ltd., in Coleman Street, London, E.C. The premises were formally opened by the Lord Mayor on June 18, in the presence of Lord Leverhulme. The last-named, in the course of a speech of welcome, stated that the combined exports of soap from the United Kingdom were, before the war, greater than the total exports of France, the United States, and Germany. In all foreign countries British soap has a very high reputation.

SALICYLATES.—Particularly fine samples of sodium salicylate and salicylic acid reach us this week from The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N. The sodium salicylate is in beautiful nacreous flakes, and dissolves readily to form a colourless solution. We have carefully compared it with a specimen of a German make which before the war was supposed to set the standard, and find that the British product is in no sense inferior. The salicylic acid is in heavy needle form (convenient for weighing out), and is perfectly white. We have stated before that there will be no need in future for German salicylates in the British markets, and these specimens amply confirm our opinion.

Deed of Arrangement.

Machin, William G.—Chemist and Druggist, High Street, Hartley Wintney. Trustee, G. M. White, 14 Old Jewry Chambers, London, E.C. Dated, June 7; filed, June 14. Liabilities unsecured, 247%; estimated net assets, 90%. Among the creditors are The British Drug Houses, Ltd., 43%; S. Maw, Son & Sons, Ltd., 12%; and Meggeson & Co., Ltd., 10%.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," June 6, 1917.)

- "BLUE BIRD," for chemicals (1); "TINTRO," for chemicals (1), goods (47), and perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 377,495/830/831/832.
- "COMET BRAND," with picture of same; for heavy chemicals (1). By Dutton, Massey & Co., Norfolk House, Laurence Pountney Hill, E.C. 4. 377,290.
- "ORING," for disinfectants (2). By G. W. J. Allen, 15 Victoria Park, Fishponds, Bristol. 377,674.
- "AFROSINA" on belt circling globe showing South America; for veterinary medicines (2). By R. C. Etcheverry, 1771 Sarmiento Street, Buenos Aires. 375,658.
- "Zoor," for corn-plasters and remedies (3). By P. G. Curtis, 19 Victoria Place, Brightlingsea. 377,029.
- "PRACTIPEDIC," for curative instruments, etc. (11). By The Scholl Manufacturing Co., Ltd., 1-4 Giltspur Street, E.C. 376,864.
- "EXOX," for extract of meat (42). By Bonovin, Ltd., 116A Islington, Liverpool. 376,819. (Associated.)
- "CLAIR DE LUNE," for perfumery, etc. (48). By The Standard Tablet and Pill Co., Ltd., Hove. 376,416.
- "JANA," for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, W. 1. 377,804.
- "STANCOE," for non-medicated smoking-materials not containing tobacco (50). By Subancoe, Ltd., 73 Moorgate Street, E.C. 2. 373,943.

(From "The Trade-marks Journal," June 13, 1917.)

- "CHROMOSOL," for chemicals (1). By Chemische Fabrik vormals Sandoz, 60 Fabrikstrasse, Basle, and Sandoz Chemical Co., Ltd., 9 Arundel Street, Bradford. 376,948.
- "EMERALDOL," for dyes (1). By L. B. Holliday & Co., 650 Leeds Road, Deighton, Huddersfield. 377,396.
- "VEVIC" and "VEEVITE," for chemicals (1). By The Liverpool Borax Co., Ltd., Rathbone Road, Liverpool. 377,684/5. (Associated.)
- "SYROL," for insect-destroyers (2). By E. A. White, Ltd., Beltring, Paddock Wood, Kent. 377,115.
- "ABDOM" on globe encircled by belt; for surgical appliances (11). By Emily Heward, Crown Road, Twickenham. 376,957. (Associated.)
- "FENWAY," for indiarubber and guttapercha goods (40). By The United Drug Co., 43 Leon Street, Boston, Mass. 378,079.
- "VIOGEN," for goods (42). By Bacchus Marsh Concentrated Milk Co., Ltd., 43 Tooley Street, S.E. 1. 377,437.
- "LILIAN'S FAVOURITE," for perfume, etc. (48). By C. Billing, 85 Lancaster Road, W. 11. 375,836.
- "EAU DE COLOGNE DE ST. PAUL," with picture of St. Paul's Cathedral; for eau de cologne made in London (48). By M. Emanuel & Co., 41 and 42 Shoe Lane, E.C. 4. 376,700.
- "VERA" under picture of woman in classic robes carrying lamp and mirror; for soap (48). By J. Hargreaves & Son, Ltd., 81 Binns Road, Edge Lane, Liverpool. 377,076. (Associated.)
- "ABBEY EAU DE COLOGNE" on circular label including picture of abbey; for eau de cologne made in Great Britain (48). By Parke's Drug Stores, Ltd., 65 Harmond Street, N.W. 1. 377,302. (Associated.)

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the under-mentioned articles will be appreciated.

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| 59/66. Boxwood-topped corks; wholesale supplies. | 57/6. Coconut charcoal. |
| 59/8. "Oleagua" hair-wash. | 60/61. B. R. Keith's hair-restorer, London. |
| 58/8. "Terocain." | 61/71. Jones' Ext. of Victoria perfume. |
| 59/7. Electric ointment. | 62/17. Zinc stearate (supply in quantity). |
| 59/13. "Cersol" hay-fever cure | |

INFORMATION SUPPLIED.

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|---------------------------------------|---|
| "Amami" henna shampoo-powders, 54/30 | Limestone phosphates, 20/25 |
| Ampoule-files, 53/72 | "Little Victor" inhaler, 21/60 |
| Antiseptic shaving-blocks, 19/20 | Loofah socks, 58/37 |
| Brown's bronchial troches, 39/60 | "Melox" dog-foods, 46/62 |
| "Butterfly" perfume, 28/30 | "Mentholatium," 19/63 |
| "Cryogenine," 9/39 | Oxydol, 21/74 |
| "Cuficura" specialities, 60/33 | "Oxydol," 30/28 and 44/2 |
| "Cystazol" tablets, 60/16 | Oxyntin, 44/1 |
| Deokers' shampoo-powders, 54/30 | Personal weighing and measuring machines, 56/26 |
| "Densol," 11/56 | "Rexall" preparations, 21/72 |
| "Dentinol," 40/20 | Robins' peptonate-of-iron drops, 45/22 |
| Gilbert's sulphur candles, 59/19 | Santal Midy, 51/23 |
| Guy's tonic, 30/23 | "Scalol," 27/37 |
| Hansen's rennet, 9/45 | Soya-bean meal, 22/30 |
| Health saline in tins and bulk, 63/73 | Squibb's ether, 19/63 |
| | Starch, 55/71 |
| | Sulphol, 51/65 |

Observations and Reflections.

By Xrayser II.

The Handwriting on the Wall,

with its presage of the coming doom of officialdom at Bloomsbury Square, must have struck the President and the Vice-President with something like a chill when the ballot showed, as pointed out by Mr. Schollar, that more than one-fourth of the Councillors wanted them so little as to think them not worth a vote. A more eloquent demonstration of censure could hardly have been conceived at the present time than this silent protest against the continuance of the reigning clique. Next year the fourth will in all probability become a third, and two years hence it may be a majority of the Council. The next President is in the making now, and his fate will depend on the way he bears himself during the ensuing year or two years.

Where is that Balance-sheet?

I am most anxious to find it, but I have hunted high and low for it in vain. Yet the language employed in the quotation you print in your last issue indicates that the particulars regarding the funds of the Central Checking Bureau have already been published, since "further publication" is unnecessary. I confess I am amazed at the arrogance of the men who think they can prevent a full public statement being made of moneys contributed for a public purpose; and if that statement is not forthcoming in a duly vouched and audited balance-sheet, there is a sure and simple plan for putting the needful pressure on to secure such publication.

The Venereal Disease Act

is now, for good or evil, the law of the land. It is not so inimical to our interests as was the Bill first drafted, but even as it stands it is, in view of other recent legislative schemes proposed by the medical profession, somewhat disquieting. It is the most direct attempt yet made (or successfully made) to secure for the profession a monopoly of medical practice. Other enactments have aimed ostensibly at preventing outsiders from representing themselves as medical practitioners, or from recovering debts due to them for such practice; but this goes much farther. It makes it penal to treat or advise anyone suffering from these diseases for reward of any kind, direct or indirect. If to do this is, as seems likely, to be construed as practising as a doctor, then this Act may perhaps lead to a new construction of other and less stringent Acts. The advertisement clauses are open to grave objection. They might apparently be so construed as to bring a quite innocent article in a public print within the scope of the Act. The partial application of the Act will be a source of trouble.

The Glucose Position,

which you expounded so clearly in a recent issue, is becoming more stringent day by day, and I shall not be surprised if the General Medical Council is "a day behind the fair." Whether glucose will be commandeered in the same way as glycerin has been, or rationed like sugar, I do not know, but the situation is developing rapidly, and a new order may be forthcoming any morning. The trade owes a big debt of gratitude to THE CHEMIST AND DRUGGIST for its promptitude in keeping us abreast in all these points, and those who took advantage of the hint at the close of your article will have special reason to thank you for a timely tip. The same remark applies to the note on sodium sulphocarbonate. Pharmacists are the natural dealers in a compound of this character, and if the material is introduced to the public, with directions for its use as a preventive of the fly nuisance, there will undoubtedly be a big demand created with little trouble or expense.

I Take it as a Compliment

that my somewhat loose use of "proprietary" as equivalent to "secret" is regarded by some critics as a lapse from my usual care in the use of

words. The two terms are so generally coupled together, and even used as synonyms, that my lapse, if it were one, does not greatly trouble me, especially since I made my meaning quite clear to any ordinary intelligence by what I said afterwards of admittedly secret remedies. "Proprietaries" was, however, the word used in the Insurance Committee's Circular upon which I was commenting, and whatever meaning it had there my remarks upon the prohibition hold good. It is much less of a grievance to us that all "proprieties" should be disallowed than that the onus of deciding what are and what are not allowable should be cast upon us. This is the gist of my note, and my critics make no attempt to controvert it.

The Question Raised by "Research"

is, it must be admitted, a difficult one, but I think he exaggerates its importance. It may be true that the prospect of diminished personal gain might discourage research to some extent, but it would neither turn the truly scientific spirit from its pursuit nor prevent the introduction of new remedies. Man is so constituted, fortunately, that he cannot cease from inquiry and experiment, and most of the great discoveries of the world, whether in medicine or elsewhere, have been due to disinterested, not to selfish, motives. To suppose that science has in our day become so commercialised as to be motivated only by the hope of personal gain is a libel to which I refuse to subscribe. And, of course, an experimental stage must be allowed, as it always has been allowed, to every new claimant to a place in our materia medica. All I contend for is that before that place is accorded to it the profession should have the same opportunity of studying and understanding it in its composition as well as its effects, as it has in the case of other articles of the materia medica. To suggest that this means that scientific prescribing would confine us to the B.P. is a mere travesty of the truth. And the discoverer would not suffer the loss of all gain to himself; probably not more than he loses now by the substitutes which his exclusive right to a protected title calls into being.

Mr. Skinner

does not write with his usual care when he says, "The simple word druggist connotes, however, one who sells drugs on the wholesale plan, who need not necessarily be qualified." Whatever the word connotes, in the Pharmacy Act it is used to denote a person who is legally qualified to "keep open shop for retailing, dispensing, or compounding poisons." None but such persons, the Act declares, can lawfully "assume or use the title . . . chemist or druggist"—words which protect the latter exactly as they protect the former. Nor would it be true to say that "druggist," standing alone, usually indicates a wholesale rather than a retail dealer in drugs. I should say the exact contrary is the case, for the wholesaler almost invariably adds "wholesale" to this title; while the retailer frequently uses it without qualification. One of my own old shops bore on its fascia the name of my predecessors, with the description "druggists" (*solus*) after it, and I did not think it worth while to alter or add to this description. My predecessors were qualified men, otherwise they could not legally have described themselves as they did. As for "apothecary's shop," I confess that I have never heard it anywhere applied to a chemist's shop, though "doctor's shop" often is—a practice which the use of such terms on their fronts as "medical hall" by some chemists no doubt does much to encourage. This question of titles is, of course, an important one, and deserves to be dealt with authoritatively. If the "professional chemist" pines for want of a title, we have too many, and any good suggestion for adjusting them more reasonably and conveniently would be welcome.

SCIENCE cannot any longer be the under-fed maid-of-all-work; science is the queen herself coming into her kingdom. Science is no longer to be merely permitted, tolerated, apologised for; she must preside at the council-board, because she already rules the lives of the people.—*Professor D. Fraser Harris.*

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Editorial Articles.

The Wisdom of Theophrastus.

As a relief from business worries and war strain a study of the classics is often recommended. The advice is generally accompanied by a statement that these should be read in the original text, which rather limits the scope of the advice, as comparatively few people of the class affected can read Greek or Latin with the facility needed so that the relaxation is not converted into effort. The publication recently of an English translation by Sir Arthur Hort, Bart., of the Greek text of the "Enquiry into Plants," by Theophrastus (two volumes, 5s. each, Heinemann), however, simplifies the matter. This

work contains such a lot of detail of interest to chemists that we can recommend it to those who are seeking relaxation which involves the least amount of effort. The Greek text is printed on the left-hand side, and the English translation on the right hand. Theophrastus was born at Eresos, in Lesbos, in 370 B.C., and at an early age went to Athens, and there became a pupil of Plato. Aristotle was a fellow-pupil, and after Plato's death Theophrastus became a pupil and friend of Aristotle. When Aristotle died, Theophrastus became Aristotle's literary executor, and, besides having had bequeathed to him his master's works, was given his botanical garden in the grounds of the Lyceum. Theophrastus, who lived to be eighty or ninety, is the earliest botanical author in Europe. The "Enquiry into Plants" is thought to embody the lecture-notes which Theophrastus used in his discourses to his pupils. Sir Arthur Hort has been assisted in his translation by Sir William Thiselton-Dyer, the botanical expert, who has identified the plants referred to in the Greek text and made the work much more interesting. The two volumes cover a wide ground, but we must confine our references to Book IX., "Of the Juices of Plants and of the Medicinal Properties of Herbs." This occupies about a hundred pages of the second volume, and as one reads the section it is a little difficult to realise that Theophrastus wrote about the year 314 B.C., so fresh does most of it appear. A good deal of this may be due to the translation, but it does not detract from the pleasure which one experiences in reading it. In Book IX., for example, one gets an account of the methods of collecting juices and resins, and details of the way pitch is made in Macedonia and Syria. Regarding myrrh and frankincense it is stated that the Sabæans, who collected these, took the product to the temple, labelling each pile with the name of the owner, the weight, and the price required. Merchants then inspected the piles, "and whichever pile pleases them they measure, and put down the price on the spot whence they have taken the wares." Quite an old version of the modern Mincing Lane practice. "Myrrh," writes Theophrastus, "is either fluid or solid. That of better quality is tested by its taste, and of this they select that which is of uniform colour." Some space is devoted to the difference between cinnamon and cassia, and a quaint fable is given about cinnamon growing in deep glens "where there are numerous snakes which have a deadly bite." Mecca balsam, sweet-flag, and ginger-grass are next dealt with, and then the methods of collecting roots, the description of the collection of hellebore being accompanied by minute directions. Digging hellebore, it is written, soon makes the head heavy, and men cannot go on digging it up for long, "wherefore they first eat garlic and take a draught of neat wine therewith." Translated into bread and cheese and beer, this would apply to many agricultural labourers of the present day. There are certain ceremonies to be observed in collecting mandrake—e.g., the cutter should dance round the plant and "say as many things as possible about the mysteries of love." Other plants require curses from the collector. Four kinds of poppy are referred to, but somewhat briefly. Liquorice-root, it is stated, "is useful against asthma or dry cough, and in general for troubles in the chest; also, administered in honey, for wounds; also it has the property of quenching thirst, if one holds it in the mouth." The popularity of liquorice for coughs is as strong now as ever. A method of preparing wolfsbane is referred to which will make it prove fatal "at a certain moment, which may be in two, three, or six months, or in a year, or even in two years." Two famous druggists—Thrasyas, of Mantinea, and Alexias, his pupil—are mentioned who possessed special knowledge regarding the compounding of hemlock. They seem, however, to have employed their knowledge in the preparation of poisons which would escape detection. At the end of the second volume there is a translation of a minor work of Theophrastus, "Concerning Odours." This is also interesting, and although the section dealing with the making of perfume-powders and compound perfumes is short, it mentions a curious method of perfuming the body, which consists in saturating the bedding with the perfume-powder soaked in fragrant wine.

Practice Problems.

THE spell of hot weather and the increased attention which is being given to agriculture and horticulture have brought to chemists' shops a crop of problems larger than usual. We have had several requests for information

regarding Bordeaux mixture and Burgundy mixture, which are being recommended by public bodies for use as sprays for potato foliage. There are numerous formulæ for

Bordeaux Mixture. We collected these under one heading in an article on agri-horticultural chemistry which was published in *The Chemist and Druggist Diary*, 1910; and, so far as we are aware, that is the only publication where these recipes have been collated. The formulæ which customers require are those given in the leaflets of the Board of Agriculture and Fisheries, and as it is as well that chemists should have these handy we repeat them. Chemists should call attention to the need for observing the proper order of mixing, the importance of which customers often do not appreciate. The chemist's part is usually only to supply the copper sulphate and to give advice regarding the quicklime and the method of mixing, but we understand that some chemists in agricultural districts prepare and sell the liquid ready for use.

1. Ordinary.

Copper sulphate ... 12 lb.
Quicklime (freshly burnt) ... 8 lb.
Water ... 75 to 100 gals.

Run into a cask about 30 gals. of water. Crush 12 lb. of copper sulphate, tie up in a piece of sacking, and suspend just below the surface of the water; or, if preferred, dissolve the blue-stone in boiling water and pour into the cask. Next moisten and slake 8 lb. of lime—the lime must be allowed to swell and crumble slowly; when it has been well slaked work it down first into a thick cream and gradually dilute to 4 or 5 gals. The milk of lime must next be strained through a fine sieve or piece of sacking to remove grit; it should then be further diluted with water to about 10 gals., and poured slowly into the cask containing the solution of copper sulphate. As the two fluids mix they must be thoroughly stirred.

Burgundy Mixture, also used for potato-spraying, requires copper sulphate, but the alkali employed is sodium carbonate. In this case the chemist usually supplies all the ingredients and gives the directions for mixing, which are similar to those required for Bordeaux mixture. The official recipes are as follows, the first being that of the British Board of Agriculture and the second that of the Irish Department of Agriculture:

	I.	II.
Copper sulphate ...	12 lb.	8 lb.
Washing-soda (soda crystals) ...	15 lb.	10 lb.
Water ...	100 gals.	40 gals.

The Irish authorities state that for an average crop of potatoes with fully developed foliage about 120 gals. per statute acre is required.

Inquiries are now reaching chemists as to the best way of destroying wasps, which, if not extirpated early in the season, may cause much damage to fruit ripening on the trees. In districts where much fruit

DESTROYING is grown systematic efforts are needed to cope with the wasp plague. The most effective plan is to place sodium cyanide, either in the solid state or in solution, in the wasps' nests. If the solid sodium cyanide is employed, a small piece or pieces—the total quantity need not be more than $\frac{1}{2}$ oz.—

is placed in the mouth of the wasps' nest at night, and covered over with a clod of earth. The fumes from the cyanide percolate into the nests and destroy all the wasps therein. If the solution is used—and many people prefer it—it should be sold of the strength of from 1 oz. to 2 oz. in a pint of water. It is employed by saturating pledgets of cotton-wool with the solution and placing these in the nests in the same manner as with the solid cyanide. It is as well to impress upon customers that cyanide is a deadly poison. We may also mention the use of carbon bisulphide for the same purpose. The liquid is placed on pieces of cotton-wool and put into the entrance to the nests in the same way as the cyanide solution. The vapour is deadly to the wasps, and sometimes farmers complete the work of destruction by firing the vapour the following day.

A subscriber this week wrote to thank us for giving in a recent issue a note on sodium sulphocarbonate, of which he confessed he had not heard until he

FLY saw it in *THE CHEMIST AND DRUGGIST*. The PESTS. sequel was that a day or two after he had

read about it, the local medical officer of health, rather patronisingly, our subscriber thinks, called and asked about sodium sulphocarbonate. The readiness with which the information was supplied rather surprised the M.O.H. An authority on flies informs us that chemists can help in the campaign against these pests. He writes:

Chemists should stock:

1. Fly-sprays; at least one good one is available.
2. A good application for refuse-bins, manure-heaps, etc., which can be used by the ordinary householder.
3. Prepared formaldehyde mixture for fly-poisoning. They may also display fly-papers, fly "swatters," and disinfectants. If the last-named are effective against flies, well and good—often they are not. It would this summer be a national service if chemists would educate the public in using anti-fly preparations.

We have been rather impressed with the readiness with which the public is taking to the anti-fly campaign, and we hope that chemists will do what they can to assist in popularising remedies for the fly nuisance.

The Chemist's Title.

I.—Chemist and Druggist.

DR. M. O. FORSTER, F.R.S. and member of the Council of the Institute of Chemistry, has again, and for the third time, proposed that the Pharmaceutical Society should be asked to give up the title of "chemist" to those "professional chemists," "poor nameless people" (so he calls them), whom he regards as having the best moral right to it. It is an interesting fact that each time we have printed Dr. Forster's remarks they have brought us letters from subscribers who make various suggestions, but very few are prepared to give up their historic title, especially as nothing but fair words are offered in return. Dr. Forster's appeal and that of Sir J. J. Dobbie, President of the Institute of Chemistry, it would be almost inhuman to ignore, but they would perhaps have come with better grace from any other quarter. When, in 1877, the promoters of the Institute of Chemistry applied for registration by the Board of Trade, they proposed to call their Association "The Institute of Professional Chemists," but this was disallowed by the Privy Council at the instance of the Pharmaceutical Society, who, quite rightly, in view of the fact that the inclusion of pharmacists in the Association had been objected to (though Michael Carteighe was one of its founders), considered this distinction between pharmaceutical chemists and professional chemists a slur on "itself and its members, and that our rights might be endangered if our title were in any way infringed. The Institute, however, has not ceased to question our right to the title of "chemist," which it accuses us of having "usurped," though its own official "History" has to admit that the law allows our prior claim to it. The writer of the aforesaid "History," replying to Professor Atfield, denies that we have any right but the statutory one; he does so in reliance on the

fact that the alchemists, from whom, apparently, he conceives the title to have descended, correspond more nearly to the analytical than to the pharmaceutical chemist, which may be readily conceded. But he overlooks the fact that the title is older than alchemy; that, as Mahn says (followed more positively by Skeat), the Greek *chymia*, from a verb meaning to pour, and connected with *chymos*, juice or liquid (especially of plants)—that this, and not the later derivation from *Khem*, a name for Egypt, where chemical study at a later period developed into alchemy, is probably the true etymology, and that consequently we pharmacists are the true modern successors of the first chemists. However this may be, it cannot be denied that since the time of Paracelsus there have always been two schools of medicine, the “chymical” and the galenical, and that the term “chymistry” was applied in England to pharmaceutical operations at least as early a date as to chemical research generally. Modern chemistry, we are told, only dates from about 1777, more than a century before which we find the title of “chemist” given to distillers of medicated waters, and to those who (as Raleigh says) draw “medicines out of poyson” as well as “poysons out of the most helpful herbes.” Either of these two facts is sufficient in itself to establish our historical right to the disputed title, but the former is the more important, because, as “Xrayser II.” stated the other week, the junction of these two schools of medicine, so long antagonistic to each other, is signalised by the composite title of “chemist and druggist,” which naturally resulted from it. Precisely when it was first used we cannot say, but since our early Pharmacopoeias and Dispensaries comprised both “chymicals” and “galenicals” (the first two divisions of Bate’s book, for example, are headed “Compound Chymick Internals” and “Compound Galenick Internals” respectively) it is fairly certain that it dates from early in the seventeenth century. It was in 1671 that the apothecaries added a chemical laboratory to their dispensary. The term “chemist” was for long one of reproach, and it was mainly the successful application of the science to pharmacy that raised it to honour. Spratt, in his History of the Royal Society, divides chemists into three classes—such as look after the knowledge of nature in general, such as seek out and prepare medicine, and such as search after riches by transmutations and the great elixir. The last-named he dismisses with something like contempt, but to the other two he gives high praise, and adds of the second of them: “If it were not already excellently performed by others, I might here speak largely of the advantages that accrue to Physick by the industrious labours of such Chymists.” The distinction he draws, however, between what Dr. Forster might call pharmaceutical and professional chemists, though convenient, is not strictly accurate, for the chemists of his day did not usually confine themselves within such limits; Boyle, who has been called the father of English chemistry, devoted much time and study to medicine, and at a much later date other chemists besides Humphry Davy have begun life as apothecaries. It was about the middle of the eighteenth century that the “chemist and druggist” began under that designation to come into active rivalry with the apothecary, to whose peculiar function he was destined ultimately to succeed. Before the century closed he had attained such importance that Parliament was invoked against his “encroachments,” but he was not to be suppressed. In 1829 the General Association of Chemists and Druggists was founded; in 1843 the Pharmaceutical Society obtained the Charter securing our position; and in 1852 the first Pharmacy Act, giving us a legal right to the title we had borne for something like a hundred years, was passed. Is it reasonable to expect us to relinquish it in favour of an Institute which dates only from 1877, and has not, either etymologically or historically, so good a claim to it as ourselves? It is not our fault that these “professionals,” though they have a local habitation, have no name; may we suggest that the term “alchemist” is open to them, and would

seem, according to their own showing, a highly appropriate title? Alchemy, we are told, was the mother of chemistry, and, whatever her errors, the modern chemist has no need to be ashamed of his parent. We propose in some further articles to consider other titles that are borne by, or have been suggested for, us. There is no finality in human affairs, and although we have established an indefeasible right to the titles we bear, it is conceivable that arrangements might be made by an exchange of courtesies with other bodies for some concessions on our part to meet any real grievance on theirs. But such concessions would have to be reciprocal, and it is not apparent what the Institute of Chemistry, taken alone, has to offer us in return for what it asks us to grant.

The Supply of Spirit.

SOME misconception appears to prevail on the subject of the recent concessions of the Board of Customs and Excise relative to spirits for medicines and perfumes. No doubt the intention is that chemists and perfumers should be enabled to obtain more spirit in the future, but it is only fair to state that manufacturing perfumers are experiencing a spirit-famine the seriousness of which it is not our intention to minimise. The Customs and Excise authorities appear to have taken the steps referred to last week with a view of removing some of the difficulties which hindered a user from getting the spirit. The official General Order is dated June 7, so that hardly sufficient time has elapsed to test the working of the new concession. We do not understand that there is a waiving of the additional duty, but only a waiving of that part of the previous regulation which restricted the strength of plain British spirit to 60 o.p. and over. There is no limit of strength now prescribed. So many manufacturers, including those making spirituous medicines for hospitals, etc., have been hit by the difficulties thrown in the way of obtaining spirit that representations on the subject have led to an alteration of attitude on the part of one Government Department—viz., Customs and Excise—to do what they can to lessen the difficulty.

Sugar Rations.

THE question of the supply of sugar to wholesale druggists for pharmaceutical purposes has at last received attention from the Ministry of Munitions. The position has been a difficult one for a long time, and the authorities were slow in moving, with the result that serious inconvenience has been felt in the supply of medicaments in which sugar is necessary as a preservative. It is nearly three months since we suggested to the Food Controller that sugar for pharmaceutical purposes might at least be placed on the same footing as that required for “jam, marmalade, or condensed milk,” which was especially exempted from the operations of the Sugar (Restriction) Order, 1917. The proportion of sugar obtainable by manufacturers, in which category wholesale druggists were included, was further restricted by the Sugar (Restriction) Order No. 3, 1917, which was issued a month ago. We are glad now to be able to state that an authorisation has been issued by which wholesale manufacturing druggists may obtain 50 per cent. of the sugar they used in 1915, in place of the 25 per cent. mentioned in the last Sugar (Restriction) Order (C. & D., May 26, 1917, p. 37). This is satisfactory so far as it goes, but it does not follow that there will be sufficient sugar for all the pharmaceutical purposes required by wholesale druggists. The supply will still require to be eked out with honey, glucose, and invert sugar for some unofficial preparations, as the demand upon wholesalers for saccharine products is for several reasons much greater now than it was in 1915.

QUEBRACHO A “KEY” INDUSTRY.—At a meeting of the Forestal Land, Timber, and Railway Co., Ltd., which deals largely in Argentine quebracho, it was announced that the British Government had insisted that the quebracho industry must be retained and maintained as a British “key” industry, and that there must be no risk of shortage in the regular supply of extract.

Charles Alexander Hill, B.Sc., F.I.C., Ph.C.,

President of the British Pharmaceutical Conference.

ALTHOUGH in war-time the British Pharmaceutical Conference is shorn of its customary appendages, the high standard which is required in its officers has not been allowed to deteriorate. Mr. Charles Alexander Hill, B.Sc., F.I.C., Ph.C., who was elected President at the Conference last year in London, is well known for his scientific attainments, while his business acumen is attested by the simple fact that he is chairman and managing director of The British Drug Houses, Ltd., a company ranking among the largest and most important manufacturing businesses in this country.

ANCESTRY.

Mr. Hill is a striking example of the advantage of heredity, other things being equal, in obtaining a perfect product. His grandfather Arthur Stephen Hill (1802-99) was at the age of fifteen apprenticed to White & Cantherley, wholesale and retail chemists, Ludgate Hill, London, a business founded by Dalmahoy in 1755. A. S. Hill eventually took over the business in which he had served his apprenticeship, and it became the nucleus from which grew Davy, Hill & Hodgkinsons, Ltd., one of the components of The British Drug Houses, Ltd., which was formed in 1909. His son, Arthur Bowdler Hill (1828-1909), was educated with a view of joining his father in the drug-business, and on attaining his majority, in 1849, was assumed as partner, the firm name becoming A. S. Hill & Son. When A. S. Hill retired, in 1872, A. B. Hill became sole proprietor of the business, and remained so until 1885, when he admitted his elder son, Mr. Arthur Croft Hill, as a partner. The last-named in 1893, deciding to take up the study of medicine, left the drug-business, graduated at Cambridge in medicine, and has since become one of the most distinguished physiologists of the present day. We need not here follow the rather intricate evolutionary process by which the Hill business became a component of The British Drug Houses, but it was in the early stages, some twenty years ago, that Mr. C. A. Hill (the second son) became associated with his father in the business, at that time carried on in Southwark.

EDUCATION.

Mr. Chas. Alexander Hill was born in 1874, and was educated at Winchester College, one of the most famous of the public schools of this country, his scholastic career being a brilliant one. Destined at this time to take his brother's place in the family business, his education was directed into scientific channels. He was sent in due course to the School of Pharmacy of the Pharmaceutical Society, and in 1896 became a pharmaceutical chemist. Then he spent a year in the chemical and biological laboratories of St. Thomas's Hospital, and studied physics in the

Wheatstone Laboratory at King's College. Before he came of age he passed the examinations for Associate of the Institute of Chemistry and the Intermediate B.Sc. examination of the University of London, being in the latter second in the first-class honours list for chemistry. He was next occupied in the Research Laboratory of the Pharmaceutical Society, and while here was the victim of an explosion, which so severely affected his eyes that for a long time he was not permitted to use them. This interrupted his scientific studies, so that it was not until

1904 that he graduated as Bachelor of Science of the London University. Thus has Mr. Hill justified the expectations founded on his ancestry, but he has also shown that scientific initiative and aptitude for tackling business problems which require for success a sound training.

SCIENTIFIC WORK.

While still a young man we find him communicating a useful note on the assay of cream of tartar. At the time he wrote (1896) the British Pharmacopœia 1885 required potassii tartras acidus to be assayed by titrating with oxalic acid the residue on ignition. Mr. Hill showed that this process is inaccurate, and that the direct assay of the acid with alkali is quicker and also better in other respects. The hint was taken by the pharmacopœial authorities, and Mr. Hill's process became official in the British Pharmacopœia 1898. In 1904 we find that Mr. Hill first published observations regarding the presence of traces of lead and arsenic as impurities in chemicals. His first important paper on lead in pharmaceutical chemicals, printed in *THE CHEMIST AND DRUGGIST*, March 11, 1905, dealt with the occurrence of that metallic

impurity and laid down the exact process for estimating the amount of lead. The paper is a model of conciseness, and its importance is undoubted. It attracted the attention of Warington, who referred to it as an "excellent paper" and supplemented it by indicating methods of obtaining lead-free tartaric and citric acids. The same year Mr. Hill, in conjunction with Mr. H. S. Collins, devised a simple and effective method of applying the Gutzeit test for arsenic. The apparatus which these workers devised is illustrated in the original paper in *THE CHEMIST AND DRUGGIST*, September 30, 1905, and the apparatus is that described in Appendix VI. of the British Pharmacopœia 1914. The lead and arsenic limits in the Pharmacopœia are founded on Mr. Hill's study of the subject, his position as a trained chemist and a chemical-manufacturer giving him advantages in such a research as are possessed by very few. Those who desire to become acquainted with the reasons for the official limits of metallic impurities in pharmaceutical chemicals should consult the original paper in *THE CHEMIST AND DRUGGIST*, May 23, 1908, and the tabular summary of many years'



work which appeared in our issue for July 4, 1914. Although such an important contribution to pharmaceutical chemistry is enough to make one man's reputation, it does not exhaust the tale of Mr. Hill's original work. He has, for example, specialised on essential oils. It will be remembered that he and Mr. J. C. Umney, as members of the Committee of Reference in Pharmacy of the Pharmacopœia Committee of the General Medical Council, were entrusted with the important task of revising the monographs on essential oils for the British Pharmacopœia 1914. These were put forward for criticism at an evening meeting of the Pharmaceutical Society of Great Britain. The result has been that the national Pharmacopœia has been freed from the anomalies and inexactitudes in the descriptions of these oils, and that scientific methods of assay have been introduced. We recall other directions in which Mr. Hill's activity has been manifested, but must content ourselves with the enumeration of the titles—mostly explanatory—of some of the papers beyond those already mentioned which he has published:

"Misleading Trade Names" (*C. & D.*, March 24, 1906); "Mercurial Cream" (*"Journal of the R.A.M.C."*, July 1906); "Cinnamon-bark Oil" (*C. & D.*, June 25, 1910); "Crystallisation of Sodium-salicylate Solution" (*C. & D.*, December 17, 1910); "Calcium Lactate" (British Pharmaceutical Conference, 1912); "Storax" (*C. & D.*, March 16, 1912); "The Function and Scope of the Chemist in a Pharmaceutical Works" (lecture before the Institute of Chemistry, 1913); "The Operation of the Sale of Food and Drugs Act from the Point of View of the Wholesaler" (British Pharmaceutical Conference, 1913); "Extract of Male Fern" (*B.P.C.*, 1913); "The Relation of Wholesaler and Retailer" (*C. & D.*, April 25, 1914); "Chemicals and Synthetic Drugs" (*C. & D.*, December 12, 1914); "The Manufacture of Fine Chemicals in Relation to British Chemical Industry" (*C. & D.*, July 29, 1916). The last-named paper was contributed, jointly with Mr. T. D. Morson, to the annual meeting of the Society of Chemical Industry. This does not by any means exhaust the subjects which Mr. Hill has handled, and as he is still young there is no doubt that as he flits from flower to flower in the garden of chemical research, pharmacy will be still further enriched as the years go by. The fact that he comes of a family noted for its longevity favours the view that his output of work has only just begun.

PUBLIC OFFICES.

Mr. Hill was first appointed a member of the Executive Committee of the British Pharmaceutical Conference in 1911, and last year was elected President. He will preside at the Conference on July 11, and the hint we have received as to the subject of his presidential address is that it will be on a subject of immediate interest to all practising pharmacists. Other public bodies with which he is connected are: The Chemical Society (member of Council); Institute of Chemistry (past member of Council); Society of Public Analysts (Vice-President); Association of British Chemical Manufacturers (member of Council). Mr. Hill's record in connection with the Drug Club is unique. He was for five years the Hon. Secretary, then Vice-President for three years, and finally filled the position of President for five years, retiring some six months ago. He is also a member of the following Committees: The Pharmaceutical Society's Scientific Advisory Committee; Pharmaceutical Committee on the Stocks and Prices of Drugs and Medicinal Chemicals (appointed on the outbreak of war); Committee of Experts on the Supply of Essential Drugs advising the Government Committee on Commercial and Industrial Policy; Chairman of the Drug and Pharmacy Sub-Section of the Chemical-trade Section of the London Chamber of Commerce; and Drug-trade representative on the Spirit Committee appointed under the Finance Act (No. 2), 1915, to advise on the question of rebate of the spirit surtax. Mr. Hill is also a liveryman of the Salters' Company, with which his family have been connected for a hundred years.

HIS CHIEF WORK.

But if you ask Mr. Hill what he considers the chief work of his life, you obtain the answer, "The formation, organisation, and control of The British Drug Houses." It was undoubtedly a comprehensive scheme, which came to fruition in 1909 and combined the three large drug-businesses of Barron, Harveys & Co., Davy, Hill & Hodgkinsons, Ltd., and Hearon, Squire & Francis, Ltd. The smoothness with which the business is running is the best testimony of the soundness of the lines upon which it was devised. When "The Home of Tetradome" at Graham Street, City Road, London, N., was described in the *C. & D.*, January 28, 1911, we stated there were 493 employes on the pay-roll; at the present time there are over 700, notwithstanding that many labour-saving devices have also been introduced. A year ago we referred to an enlargement of the premises in which the extension occupied a larger space than the original premises. The development in the manufacture of fine chemicals which has taken place since the outbreak of war was one of the reasons for the extension described in 1916, but so numerous have been the new manufactures that at the time of our visit, a few days ago, we discovered that the foundations are being prepared for more buildings.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Crystallino-chemical Analysis.—Mr. T. B. Barker, Oxford (*"Lancet,"* I., 1917, p. 798), states that the method of identifying crystalline products which was devised by the Russian crystallographist Fedorov may with advantage be employed in medicine. An example is given in the paper of a crystal of salol of intestinal origin which was identified in this manner.

Glycerol B-monoglucoside.—The crystallisation and properties of this substance, obtained by biochemical synthesis, were dealt with by Professor E. Bourquelot at a recent meeting of the Academy of Sciences, Paris. By solution in absolute alcohol and partially precipitating with ether, and then allowing to stand at a temperature below 6° C. for twenty-one months, the substance has been obtained in a crystalline state. This is the first glucoside of glycerol to be obtained in that state.

Regular and Irregular Antiseptics.—At a recent meeting of the Paris Academy of Sciences, Richet, Cardot, and Rolland presented studies in lactic fermentation in presence of various antiseptics which show that when large numbers of trials are made under conditions apparently identical, the resulting acidities are not constant, but deviate considerably from the mean. This deviation varies with the nature of the antiseptic present. Thus sodium fluoride is very regular in its action, and the average deviation is smaller than that given by the control tubes. Mercuric chloride, on the other hand, added in equal quantities to each tube, gave surprisingly variable results, the average deviation being ten times that of the controls.

Ultra-violet Rays.—Dr. C. H. Browning and Dr. S. Russ read a paper before the Royal Society on the germicidal action of ultra-violet radiation. A new method was described which renders it possible to determine what portion of the ultra-violet spectrum is most effective in germicidal action. The method consists in exposing a thin film of organisms spread on a nutrient surface, such as gelatin or agar, to the spectrum from a tungsten arc. The image of the slit of the quartz spectrometer used produces a permanent effect upon the bacterial film over a certain range of wave-lengths. This germicidal action becomes apparent on incubation at 37° C. subsequent to the exposure; thus a copious growth occurs except in those regions where the organisms have been killed. Records of such action are obtained which resemble a photograph of the spectral lines. The method has been applied to test the range of susceptibility of a number of different pathogenic organisms. By the process described it is possible to expose cultures of two different organisms simultaneously to the same intensity and character of radiation. The ranges of susceptibility of *B. typhosus* and *B. coli* are closely similar, and practically the same as those of organisms such as *Staphylococcus pyogenes aureus* and the meningococcus. A striking feature of the germicidal action of the radiation in question is its abrupt termination at a wave-length of about 2960 Å.U.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

MINISTRY OF HEALTH.

Mr. Bonar Law informed Sir Wm. Collins on June 19 that the Government has not yet come to a decision in regard to the establishment of a Ministry of Health.

THE "KEW BULLETIN."

Sir Richard Winfrey stated on June 18 that the question of the suspension of the "Kew Bulletin" is being reconsidered, and he hopes it will be found possible to arrange for the continuance of the publication.

CRESYLIC-ACID SUPPLY.

Mr. H. W. Forster, M.P., announced on June 20 that the manufacture of cresylic acid is controlled by the Contracts Department of the War Office. It is impossible to foresee what further measures of control may be necessitated by the exigencies of the war, but no such measures will be taken unless absolutely necessary in the public interest.

FIGHTING BARBARISM.

Lord R. Cecil stated on June 14 that the following countries have severed diplomatic relations with Germany: Russia, France, Belgium, Great Britain, Serbia, Montenegro, Japan, Portugal, Italy, Roumania, United States, Cuba, Panama, China, Brazil, Bolivia, Guatemala, Honduras, Nicaragua, Liberia, Hayti, and Santo Domingo. Of the above countries the thirteen first enumerated (Russia to Panama) are at war with Germany and must be considered as in alliance for that purpose.

THE POSITION OF MILITARY DISPENSERS.

Our Parliamentary correspondent states that Mr. Alfred Byrne, M.P., who has recently been directing attention to the position of chemists' assistants in Ireland, has now turned to the question of military dispensers. To-day (Friday) in the House of Commons he will ask the Under-Secretary for War a question on the subject, the point at issue being that, as he alleges, they are not receiving a proper wage (in view of the fact that they claim to be civil servants) or the Government war-bonus for their services.

HEALTH INSURANCE.

As intimated a short time ago by our Parliamentary correspondent, Lord Rhondda, in reply to the last deputation which he received as President of the Local Government Board, took the opportunity of stating emphatically that there is no suggestion of suppressing any part of the scheme of State Insurance, but that the question before the Government was simply how to co-ordinate the health activities at present carried on by different authorities, and prepare for the great national work of reconstruction in all matters appertaining to health and housing.

RED-WATER FEVER.

Mr. Prothero, replying to Sir J. Spear on June 14, said he has been advised that the present season is a favourable one for the propagation and growth of the ticks which carry the disease of red-water, and that therefore some increase in the disease is to be expected. The Board's Leaflet No. 237 recommends measures for the prevention and eradication of the disease. Investigations are being conducted with the expectation of discovering improved methods of treatment, and have up to the present met with considerable success, but sufficient ground does not yet exist to justify a general recommendation of new remedial measures.

He also informed the same member that during 1915-16 there were 4,021 cases of swine fever in England and Wales, and 3,673 in 1916-17.

SPIRIT QUESTIONS.

Sir L. Worthington Evans informed Mr. Duncan Millar that the Committee on Alcohol appointed to advise the Ministry of Munitions is composed as follows: Sir Frederic Nathan, Director of Propellant Supplies; Sir Arthur Tedder, Board of Customs and Excise; Mr. F. Gosling, Board of Trade; Mr. R. J. Thompson, Board of Agriculture; Mr. S. C. Bayne, Irish patent-still distillers; Mr. Andrew Jameson, Irish pot-still distillers; Mr. Richard F. Nicholson, English patent-still distillers and rectifiers; Mr. J. Robertson, Scotch pot-still distillers; Mr. W. H. Ross, Scotch patent-still distillers; Mr. T. Shelley, methylators and rectifiers; Mr. Alexander Walker, blenders and merchants. Secretary to the Committee—Mr. W. H. Rattenbury, Propellant Supplies Branch, Ministry of Munitions, 32 Old Queen Street, Westminster, S.W. The Committee obtains expert chemical advice when necessary.

Mr. R. McNeill, on June 15, asked the Chancellor of the Exchequer, in regard to home-made spirits during the year

ended March 31, 1917, how many gallons were distilled in England, in Scotland, and in Ireland respectively; how many gallons of potable spirits were retained for home consumption; how many gallons were exported; how many gallons were used for fortifying wines, ships' stores, etc.; how many gallons were used in arts and manufacturing; how many gallons were methylated; how many gallons were allowed as deficiencies; and how many gallons were there in warehouse on March 31, 1917?

Mr. Bonar Law, in reply, stated that the information will be available in the course of the next two or three weeks, and he will cause it to be circulated as a written answer.

Mr. Duncan Millar asked the Minister of Munitions on June 18 whether bonded spirits can be used for the manufacture of munitions and of commercial alcohol instead of importing molasses and spirits into this country for that purpose; whether the adoption of such a course would result in the saving of tonnage; and whether there is any reason why a portion of the 156,000,000 gallons of spirits at present in bond should not be used for the purpose above indicated, and why the tonnage previously taken up should not be released for the importation of food instead.

The Minister of Munitions (Dr. Addison) replied that bonded spirits, after redistillation, can be used for the purposes indicated in the first part of the question. The question of how the spirits required for the manufacture of munitions and of industrial alcohol, not covered by the output of the yeast-distilleries, can best be obtained is now under consideration.

COCAINE IN DENTISTRY.

As announced by our Parliamentary correspondent, the Home Secretary, who was accompanied by several departmental officials, including Mr. J. A. Johnston, the Secretary of the Departmental Committee which was presided over by Sir Charles Hobhouse, Bart., M.P., received at the Home Office on June 15 a deputation of members of Parliament and representatives of the Incorporated Dental Society on the question of the use of cocaine in dental operations.

Mr. P. W. Raffan, M.P., introduced the deputation, which included the following among other members of Parliament: Messrs. Bartley Dennis, Aneurin Williams, William Field, Tyson Wilson, A. Yeo, Dundas White, Tom Wing, S. Galbraith, H. J. Chancellor, and T. G. Tackler.

Mr. P. W. Raffan, in the course of his remarks, urged the Home Secretary to adopt the recommendations of the Departmental Committee in view of the fact that it had been demonstrated that no injurious effects had followed from the continued permission given to the unregistered practitioners. The recommendations were as follows:

(a) That preparations of cocaine containing more than 1 per cent. of cocaine for use as local anaesthetics in connection with dental work should be procurable only from registered chemists, or from persons or firms licensed for the purpose by the Home Secretary, and subject to the condition that such preparations should be used for dental purposes only.

(b) That such preparations should only be procurable for use by registered dentists or members of a Dental Association the conditions of membership of which have been approved by the Home Secretary. The above-mentioned classes will naturally be free to purchase all preparations not exceeding 1 per cent. strength.

(c) That persons practising *bona fide* as unregistered dental practitioners, and who can so satisfy their local authority, should be entitled to apply for registration for right to purchase preparations of cocaine containing not more than 1 per cent. of cocaine; such authorisation to be granted by the County or Borough Council of the locality in which their business is situated, any refusal to register such persons being subject to an appeal to the Home Secretary.

The Home Secretary, in the course of his reply, agreed that it would be an outrageous thing if patients of the unregistered dental practitioners were deprived of the use of anaesthetics, and intimated that he would continue the present system of permits until a permanent policy has been settled by the Department. There are, he pointed out, some administrative difficulties in the way of carrying out some of the recommendations of the Departmental Committee's Report, and he was endeavouring to adjust these before coming to a final decision in the matter.

THE BOARD OF TRADE is calling the attention of the public to the necessity of not wasting empty glass bottles and jars.

ARNICA-FLOWERS.—Substitutes for genuine arnica-flowers have been found in recent importations into the United States. The substitute is *Inula britannica*, L., and is not official in any Pharmacopoeia.

SCIENCE is the strongest force that makes for the unity of our civilisation, and it is also essentially a cumulative process, and hence no history of civilisation can be tolerably true and complete in which the development of science is not given a considerable place.—Dr. Geo. Sarton.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Blackburn.—The Insurance Committee met on June 12, Mr. Coulthurst presiding, when the proposed Ministry of Health was considered. Mr. R. Lord Gifford, J.P., proposed the appointment of a Committee to watch the matter and act if necessary, and, after discussion, the motion was carried without opposition.

Suffolk (E.).—At the meeting of the East Suffolk Insurance Committee on June 19 at Ipswich, the additional war allowance of 0.3d. per prescription was formally agreed to. Complaint was made of a panel doctor who is using a rubber stamp on his prescriptions, and the Chairman (Mr. F. W. French) said it should be clearly understood that all prescriptions and certificates must be signed by hand.

Wolverhampton.—At a meeting of panel chemists (Mr. F. J. Gibson, J.P., in the chair) it was resolved that the Pharmaceutical Committee continue in office for another year. Complaints were made of the delay in payment of chemists' accounts, and also of the non-payment of the 0.3d. additional fee for 1916, and the Secretary was instructed to write to the Clerk of the Insurance Committee on the subject. Messrs. Gibson, Bowdler, Trotter, and the Secretary were delegated to meet representatives of the Medical Association and the Panel Committee to discuss the proposed dispensing for doctors: the Scotch Tariff was fixed as the basis for the charge.—Mr. L. J. Reade has been co-opted to the Pharmaceutical Committee in place of Mr. E. E. Hall.

SCOTLAND.

Prices for June.

The fifth appendix of the Drug Tariff, for June, contains alterations in the prices of thirty-six drugs and seven appliances. Ten of the drugs are lower and twenty-six higher. Attention is drawn to the fact that certain Insurance Committees are extending Sanatorium Benefit to dependants of insured persons. Such prescriptions are chargeable to the Sanatorium, but not to the Drug Fund, and should bear the index mark "D." The following is a selection of the new prices for June:

Name	oz.	dr.	Name	oz.	dr.
Acetomorph. hyd.	7s. 6d.	2d. gr.	Naphthol	...	2 1/2
Acid. acet. sal. ...	2 1/2	0 4	Ol. santal.	...	6 4
Acid. benzoic. ...	4 5/8	0 8	Paraldehyd.	...	2 0
Ammon. benz. ...	4 2 1/2	0 7 3/4	Phenacetin.	...	10 0 1/2
Ammon. brom. ...	0 7	0 1	Phenazon.	...	7 8 1/2
Atrop. sulph. 30s.	10d. dr.	7 1/2 d. gr.	Quin. hydroch.	...	5 11 1/2
Bals. peru.	...	2 3	Quin. hyd. acid.	...	7 4 1/2
Betacain hyd. 12s.	7 1/2 d. dr.	3 1/2 d. gr.	Resorcin.	...	5 2
Butyl chlor. hyd.	12 2 1/2	1 7 1/2	Salein. ...	...	12 7 1/2
Cafl. cit.	...	4 0	Sulphonal.	...	5 7 1/2
Chloral hyd.	...	1 3	Syr. seunz.	...	0 2 1/2
Chloroform.	...	0 6	Tab. phenacet.	...	1s. 4 1/2 d. doz. rate of
Cocain. hyd.	7s. 11 1/2 d. dr.	2d. gr.	Tab. phen. co.	...	1s. 4d. doz. rate of
Codeina ...	6s. 4d. dr.	2d. gr.	Tinct. opii	...	0 7 1/2
Codeine phos. 5s.	9d. dr.	1 1/2 d. gr.	Ung. gall. c. opio	...	0 8
Oresotol carb.	...	7 11 1/2	Lints (unmedicated), 2-oz.	...	5s. d.
Ext. opii sic.	...	10 9	4-oz., 10d.; 8-oz., 1s. 8d.; 1-lb., 2s. 11 1/2 d.	...	
Ferri et quin. cit.	...	2 3	Boric lint, 8-oz., 1s. 3 1/2 d.	...	
Guaiaac carb.	...	16 1 1/2	Sal alembroth lint, 3s. 4d. lb., 4d. oz.	...	
Hexamine	...	0 6 1/2	Cotton-wool, 1 oz., 2 1/2 d.; 4 oz., 7d.; 8 oz., 1s. 1d.; 1 lb., 1s. 11d.	...	
Iodoform	...	2 5 1/2		...	
Lin. chlorof.	...	0 6		...	
Liq. opii sed.	...	0 11		...	
Maleurea, B.P.C.	14	0		...	

Notes.

METHYLATED PREPARATIONS.—We are informed that the chemist members of some pricing areas have had to make a strong protest against the prescribing by panel doctors of methylated tinctures in place of the B.P. preparations, evidently with a view of keeping down the drug account; and if it were not illegal to manufacture and use such preparations we wonder what the poor patient would have to put up with next.

ADVISORY COMMITTEE.—The "British Medical Journal," referring to the protests that have been made against the proposed composition of the new statutory Advisory Committee, states that negotiations have been in progress with Sir Edwin Cornwall on the subject. These negotiations, in so far as the medical representation on the Advisory Committee is concerned, have been successful. The intention now is to divide the Advisory Committee into two sections,

(a) general and (b) medical, which in the ordinary way will meet separately to consider matters affecting primarily their respective interests. The general section will consist of the present thirty members, with two or three medical representatives from the medical section. The composition of the medical section will be twelve medical practitioners, one representative of approved institutions, one or two pharmacists, and one or two representatives from the general section. The full Committee of both sections will meet at least twice a year. Of the twelve practitioners, not fewer than eight, including one woman, must be engaged in practice under the Insurance Acts, and there will be representation of panel practice in the metropolitan area, in rural areas, in industrial areas, in Scotland, in Ireland, and in Wales. The remaining four are intended to represent consultant, pathological, and public health services, with one general practitioner not engaged in practice under the Acts.

JUNE TARIFF PRICES (ENGLAND AND WALES).—Lower: Acid. benzoic. (synthetic), 3s. oz.; ammon. ichthiosulph., 4d. oz.; benzamine lact., 9s. dr.; bism. salicyl., 1s. 5d. oz.; menthol, 1s. 3d. oz.; naphthol, 1s. 3d. oz.; resorcinum, 8s. 6d. oz.; tab. acid. acetylsal. gr. v., 2.25d. per doz. **Higher:** Acid. citric. pulv., 4s. 6d. lb.; acid. salicylic., 7s. 6d. lb.; acid. tannic., 8s. 6d. lb.; acid. tartaric., 3s. 6d. lb.; alouinum, 6d. oz.; bals. peruv., 1s. 9d. oz.; butyl-chloral hyd., 7s. 11d. oz.; caffeine, 4s. 3d. oz.; caffein. cit., 3s. oz.; calc. glycerophosph., 1s. 5d. oz.; codeina, 4s. 7d. dr.; oodein. phosph., 4s. 2d. dr.; dec. hæmatoc. (ex conc.), 1s. 9d. lb.; dec. sarsæ jam. co. (ex conc.), 6s. 3d. lb.; ext. cannab. ind., 9s. 6d. oz.; ext. nucis vom. sic., 1s. 1d. oz.; glycer. acid. boric., 2s. 9d. lb.; glycer. boracis, 2s. 5d. lb.; guaiaac carbonas, 12s. 4d. oz.; hexamina, 5d. oz.; hydrarg. perchlor. p., 8s. 8d. lb.; hydrarg. c. creta, 3s. 6d. lb.; lin. hydrarg., 3s. 4d. lb.; lithii carb., 8 1/2 d. oz.; lithii cit., 8 1/2 d. oz.; magnesia levis, 3s. 4d. lb.; magnesia pond., 4s. 3d. lb.; mag. carb. lev., 1s. 5d. lb.; mag. carb. pond., 1s. 7d. lb.; mag. sulph. (medium crystals in 28-lb. lots), 41s. cwt.; mucilag. tragac., 1s. 5d. lb.; ol. caryoph., 9s. lb.; ol. menth. opt. (redistilled), 13s. 6d. lb.; ol. morrhue (Norwegian 1917 opt.), 22s. 6d. gal.; ol. olivæ (sublime), 14s. 6d. gal.; ol. ricini E.I. No. 1 (bleached), 1s. 1d. lb.; ol. santal., 4s. 7d. oz.; paraff. liq., 2s. 4d. lb.; phenacetin, 7s. 6d. oz.; plumbi acet., 1s. 6d. lb.; pot. tart. acid., 2s. 8d. lb.; pulv. tragac. co., 3s. 1d. lb.; quin. hydrochl., 4s. 6d. oz.; quin. hydrochl. acid., 5s. 6d. oz.; sacc. lact., 2s. 5d. lb.; supo molis, 1s. 8d. lb.; sodii glycerophosph., 50 per cent., 9 1/2 d. oz.; sodii salicylas (cryst.), 10s. lb.; spt. ather. nitrosi, 5s. 3d. lb.; sulphonal, 4s. oz.; syr. ferri phosph. co. B.P.C., 1s. 2d. lb.; syr. zingib., 1s. 3d. lb.; tab. guaiaac carb. gr. v., 20.64d. per doz.; tab. phenacetin. gr. v., 14.40d. per doz.; tab. phenac. co. B.P.C., 12.95d. per doz.; tab. phenolphthalein, gr. j., 3.30d. per doz.; theobrom. et sod. salic., 4s. 6d. oz.; thymol, 5s. 6d. oz.; ung. hydrarg., 4s. 4d. lb.; ung. hydrarg. co., 3s. 10d. lb.; ung. hydrarg. nit., 3s. 4d. lb.; zinci sulphocarb., 4s. 6d. lb. Increases in price have also been made in the following appliances: Plaster of Paris bandages, 2 in. by 6 yds., each 5.75d.; best-quality oiled cambric, 22.00d. per sq. yd.; rubber ice-bags, helmet shape, each 78.00d.

Business Changes.

MR. WM. THOMAS, chemist and druggist, late with Mr. R. Starkie, 126 Strand, London, W.C., has commenced business in Grand Parade, Brighton.

MR. ELLINOR, son of the late Mr. Ellinor, of Spital Hill, Sheffield, has opened a pharmacy at 39 Ditchling Road, Brighton, as the "Ditchling Pharmacy."

MR. W. G. BOYD, chemist and druggist, has purchased the business of Walton & Curtis, 190 Broadhurst Gardens, West Hampstead, London, N.W.

MR. H. E. DWELLY, Ph.C., is closing his business at 41 Acton Lane, Harlesden, London, N.W., and removing his stock, etc., to Chatteris, Cambridgeshire.

ROSS, LTD., manufacturing opticians, Clapham Common, London, S.W., have acquired the Carl Zeiss business and factory, which had been established in this country before the war.

MR. JOSEPH WILSON, Barmoor House, Ryton, Durham, formerly connected with the Blaydon Chemical Works, who died on March 6, left estate of the gross value of 8,855l. 17s. 4d., of which 6,832l. 4s. 9d. is net personality. He gave his son Percy the silver salver presented to him on the fiftieth anniversary of his connection with the Blaydon Chemical Works, desiring that it may be retained as an heirloom.

ACRIFLAVINE.—Dr. C. H. Browning, the Bland-Sutton Institute of Pathology, Middlesex Hospital, London, W., has written to the medical journals to correct any impression that there has been neglect in acknowledging the part taken by the Medical Research Committee in the investigation of antiseptics which resulted in the discovery of the properties of acriflavine. The Medical Research Committee, who made the communication which has been misunderstood in some quarters, regret that it should have been read in that sense.

Medical Gleanings.

Cocaine Solution.

MR. J. T. HALL, L.D.S., Bournemouth ("Lancet," I., 1917, p. 324), recommends glycerin of starch as a vehicle for cocaine hydrochloride when used as a local anæsthetic. He states that the liquid keeps well, and the alkaloid is readily absorbed from it.

The Surgical Uses of Ozone.

MAJOR GEO. STOKER, R.A.M.C. ("Lancet," I., 1917, p. 797), gives a table of twenty surgical cases in which ozone is employed as a disinfectant. The ozone purifies fetid discharges, and discloses the presence in wounds of dead bone and foreign bodies, which are then treated surgically.

Prevention of Pediculosis.

CAPTAIN J. A. GUNN, M.D., D.Sc., contributes an article to the "British Medical Journal" (1917, I., 579) on the above subject, in the course of which he refers to a method of preparing undervests so that these garments may act as preventives of infection from lice. The vests, which are made of butter-muslin and are intended to be destroyed after being worn, are made lice-deterrent by dipping them in benzol containing 1 per cent. of both sulphur and naphthaline. The vests are wrung out and exposed to the air to allow of the evaporation of the solvent. In 1915 these vests could be made for about 4d., and dipping cost about ½d. each, but the price is now probably considerably enhanced. The article contains testimony of the efficacy of this method of preventing lice attacking the body.

Sphagnum-moss Dressings.

LIEUTENANT-COLONEL CHARLES W. CATHCART, F.R.C.S., R.A.M.C. (T.), writing to the "British Medical Journal" from the Edinburgh War Dressings Supply, 37 Palmerston Place, Edinburgh, states: "These dressings are specially useful for wounds which suppurate freely. In such wounds the best results will be obtained when the moss is applied damp. A thin layer of gauze is wrung out of a warm antiseptic lotion and laid on the wound; over this, and overlapping it freely, are placed the damp bags of moss, in number as required. After each bag has been wrung out of the warm lotion the contained moss must be lightly opened out with the fingers; this is done easily owing to the elasticity of the material. Lastly, the bags are held comfortably in position with a bandage. This treatment of the moss-bags is recommended whether the dressings are in the loose or compressed form, and whether they have been sublimated or sterilised by steam. The method has given great satisfaction at the Edinburgh War Hospital, Bangour."

Crookes's Collosols.

REFERENCE has been made in THE CHEMIST AND DRUGGIST on several occasions to the series of colloidal preparations made by the Crookes Laboratories, 50 Elgin Crescent, London, W., from which it is obvious that the therapeutic effect of drugs in colloidal form is superior to the same drugs in non-colloidal form. This conclusion is forcibly shown in a communication by Sir Malcolm Morris to the "British Medical Journal" (1917, I., p. 617), in which some striking instances are given of the use of the Crookes preparations. Collosol silver has a distinctly soothing effect in affections of the skin, rapidly subdues inflammation, and promotes the healing of lesions. Remarkable results have been obtained in enlarged prostate with irritation of the bladder, in pruritus ani and perineal eczema, and in hemorrhoids. It can be used in the form of suppositories, while a solution is applied to the irritated skin. In bromidrosis in the axillæ and feet it quickly gives relief. It also causes a rapid disappearance of warts. Collosol iodine, like collosol silver, produces no stain. It has been used with success for chilblains, trench-feet, bed-sores, and other affections. Collosol sulphur is beneficial in various forms of acne, dermatitis, acute psoriasis, etc. In the case of an officer from the Front who was crippled with fibrositis and had severe eczema, a daily collosol-sulphur bath relieved him of all his symptoms in a week.

Intramine in Syphilis.

MR. J. E. R. McDONAGH, F.R.C.S., states in the "Lancet" that, owing to the pain caused by the intramuscular administration of colloids, he has been trying for some time past to prepare intramine suitable for intravenous use, and has at last succeeded. Intravenous intramine is put up as a 0.1-per-cent. emulsion, and the dose ranges from 20.0 to 100.0 c.c. Intramine injected intravenously causes no unpleasant sequelæ, with the exception of an attack of coughing just as the injection is finished.

Out-patients may be treated with it, and it does not cause venous thrombosis. The effect on the well-being of the patient by injecting intramine intravenously the day after colloidal mercury has been injected is astounding. The writer concludes his paper by the statement that it is clear that the inclusion of arsenic in our chemo-therapeutic armamentarium is not necessary; that the combined use of oxidising and reducing agents is better than the employment of only oxidising or of only reducing agents; that the treatment of syphilis, so far as it affects the soldier's stay in hospital, can be very considerably diminished in duration; and that the severe after-effects, such as the increase in nervous syphilis, which will become more and more apparent, can be to a large extent avoided. Nine intravenous injections may be given in a fortnight, in which period practically any syphilitic symptom may be made to disappear.

Association Affairs.

Edinburgh.—The Chemists', Assistants', and Apprentices' Association had its second botanical excursion of the summer session on June 16, at 8.30 p.m., when about thirty members, in ideal weather, walked from Grange Church round the Blackford Hill and back to town by Nether Liberton. The party was conducted by Mr. J. Rutherford Hill, Ph.C., and practical field work was enthusiastically continued till the light failed. Many plants were collected and fully studied. As indicating the abnormal lateness of the season, it was noted that neither *Sambucus nigra* nor *Digitalis purpurea* was in flower. On the motion of Mr. Stout, a cordial vote of thanks was awarded to Mr. Hill.

London.—The Executive Committee of the London County Pharmaceutical Association met at 17 Bloomsbury Square on June 19, Mr. A. H. Jenkin (President) in the chair. Messrs. Jenkin, Keall, Melhuish, Sayers, Shirliff, and Skinner, with the Secretary, were chosen as delegates to the British Pharmaceutical Conference. Circular P.S. 38 was received and discussed. The Sub-Committee's report on dispensing for doctors was referred back for further consideration. The report of the Pharmaceutical Insurance Sub-Committee was adopted, as was the statement of accounts for the year, showing a balance in hand of 10l. 1s. 5d. The report of the Trade Committee was discussed and adopted.

London (E.).—The annual meeting of the East London Pharmacists' Association was held at Chigwell on June 14, Mr. A. R. Keith (President) in the chair, when the balance-sheet was adopted, and the retiring officers were re-elected *en bloc* and thanked for their services. Prior to the meeting the members and visitors were entertained to tea at the King's Head by Messrs. G. W. Hatfield and W. Wood, who were heartily thanked for their hospitality. After an enjoyable ramble through Epping Forest the party was again entertained by Mr. and Mrs. Hatfield at their residence.

"Script" Sports Club.—Under the auspices of the Club an Inter-District Association Singles' Championship and Team Tournament have been arranged for the 1917 bowling season, in which each of the six London District Pharmacists' Associations is to be represented. The first round of the Singles' Championship resulted as follows: Mr. E. Winzer (S.E.) v. Mr. J. F. Kingzett (S.W.) played at Greenwich on June 14, Mr. Kingzett winning by 21 points to 8, and scoring eleven times to Mr. Winzer's six. Mr. Beckwith (N.E.) v. Mr. G. W. Wilson (E.) played at Wood Green on June 15, an evenly contested game terminating in a win for Mr. Wilson by 21 points to 15. The "Western" and "Northern" representatives each had a "bye" in this round.

Sheffield.—The annual meeting of the Sheffield and District Branch of the National Association of Medical Herbalists was held at the Black Swan Hotel, Mr. J. S. Ward presiding. The Secretary's report made special mention of the increasing cultivation of "non-poisonous medical herbs" and the Association's postal-tuition scheme. The following officers were elected: *President*, Mr. Thos. Tidesley (Parkgate); *Vice-President*, Mr. J. Lee; *Secretary*, Mr. H. R. G. Skelton; *Treasurer*, Mr. A. G. Tidesley.

THE WORD EUSOL applied to the hypochlorite wound-solution devised by Professors Ritchie and Lorrain Smith is derived from the initial letters for Edinburgh University added to the abbreviation for solution.

UNIVERSITY COLLEGE, LONDON.—The total cost of the site, building, and equipment of the new chemical laboratories will be 120,000l. There is still 20,000l. to be raised, and an appeal for donations is being made by Lord Glenconner.

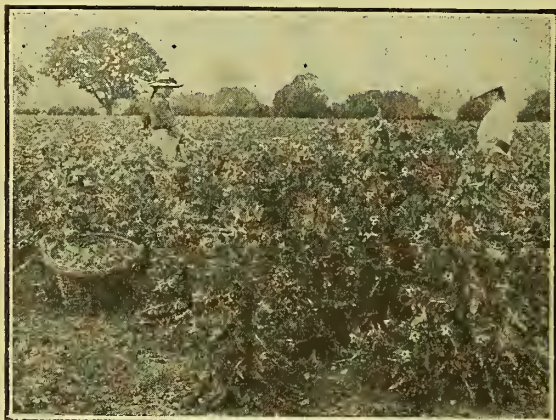
The Drug-crop.

WE have received from Stafford Allen & Sons, Ltd., drug-growers, Cowper Street, Finsbury, London, E.C. 2, the



ATROPA BELLADONNA.

photographs herewith, taken recently, of two characteristic fields at their drug-farm at Long Melford. Harvesting at the drug-farm is in progress, and it is of interest to note



HYOSCYAMUS NIGER.

that some of the pickers belong to the Women's National Land Workers' Organisation. These are distinguishable by the armlets they wear.

NEWFOUNDLAND COD-LIVER OIL.—The compulsory Government inspection of Newfoundland cod-liver oil has led to a much better quality being exported; many authorities state that the oil which passes the test is equal to the best Norwegian oil. So says the Imperial Trade correspondent at St. John's, N.F.

AMERICAN COPPER SULPHATE FOR FRANCE.—The French Government placed an order for 10,000 tons of sulphate of copper with American makers. The order was placed with one of the largest banking concerns in New York City doing an international banking business. The Government required deliveries of the entire 10,000 tons during the month of May at the port of Cette, France. —*N.Y. Commercial.*

THE SPIRIT QUESTION.—It is interesting to note that commercial alcohol, instead of rum, is to be the new by-product of sugar-factories in British Guiana, according to advices from the United States Consul Chamberlain in Georgetown. The British Government has now come to their assistance by sanctioning the production of commercial alcohol of three grades—45, 50, and 60 o.p.—the first two grades to be shipped in oak casks and the last mentioned in steel drums to be supplied by the Government, which is prepared to take the total output. The annual production should be 4,000,000 to 5,000,000 gals.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, June 21, 5.30 p.m.

ALTHOUGH business in all directions continues on a restricted scale owing to shipping difficulties, high freights, war-risk insurances, import and export restrictions, etc., the general tendency of values is still upwards. Among drugs, Cape aloes and oval buchu-leaves have been dealt in at higher rates on the spot, and in the absence of adequate imports from France, Spain, and Italy produce from those countries has a rising tendency, the excessive freights inducing spot holders to ask more money. Among chemicals, Montreal potashes, and Epsom salt are dearer. English refined camphor is 2d. per lb. higher. Citric acid is irregular. Potash permanganate is dearer. Salicylates are very firm, especially for forward delivery, with an upward tendency. Changes in essential oils include an advance in American peppermint and spearmint; star anise and cassia are firmer on c.i.f. terms.

Higher	Firmer	Easier
Aloes (Cape)	Anise oil	Bleaching-powder
Buchu	Cassia oil	Cloves
Camphor (Eng. ref. tabs.)	Citric acid	Coriander-seed (new crop, c.i.f.)
Epsom salt	Gentian	Lime-juice
Juniper-berries	Lavender oil (Fr.)	Peppers
Peppermint oil (Amer.)	Lithia carb.	Shellac
Potash permang.	Milk-sugar	
Potashes		
Spearmint oil		
Vanillin		

Cablegram.

NEW YORK, June 20.—Business in drugs is dull, and the only changes are an advance in peppermint oil in tins to \$2.35 per lb., being 5c. higher, while senega has been reduced to 60c. per lb.

ACETANILIDE is steady and unchanged at 3s. per lb. net on spot.

ALBUMEN.—At auction (in prize) 104 cases, chiefly hen, will be offered on Monday, June 25, and over 1,100 packages liquid and dried egg-yolk.

ALOES.—In conjunction with other Cape produce, the market for aloes is affected by the shortage in freight, and values are again dearer, good hard bright Cape having been sold at 55s. per cwt.

ASPIRIN is rather firmer at 14s. 6d. per lb. for B.P. quality, and, in view of salicylic acid at 6s. per lb., makers may eventually find it necessary to raise price.

BARBITONE is steady at from 115s. to 120s. per lb. net on the spot.

BLEACHING-POWDER has been slightly easier, but it is thought to be temporary only because the demand is likely to revive again shortly, and the position will probably be as tight as ever. For spot supplies 25l. per ton is quoted.

BROMIDES.—The position is rather better, and there appears to be no accumulation of stocks on the spot. American deliveries are extremely slow, and full prices are being realised.

BUCHU.—There has been more demand privately, especially in ovals, and the stock of this description is only sufficient to meet the demand for a few weeks if it is maintained on the present scale. Owing to freight difficulties it

is impossible to say when any further supplies will be available. The Cape also report that the crop of ovals is only about one-half what it was in 1916. Values are advancing, and to-day from 3s. 6d. to 3s. 9d. per lb. is wanted on the spot, according to quality.

CALABAR BEANS.—At auction in Liverpool 65 bags were sold at 1s. per lb.

CAMPHOR (REFINED).—The English refiners have advanced their prices by 2d. per lb., quoting bells at 3s. 6d., flowers at 3s. 5d., and tablets at from 3s. 5d. to 3s. 7d. net, without engagement.

CAMPHOR OIL.—Spot supplies appear to be exhausted; there is some on the way, but the price has not yet been fixed.

CANARY-SEED is steady but quiet at 86s. to 88s. per quarter for ordinary to good Morocco.

CAPSICUMS.—At auction 173 packages Bombay offered, and 90 bags middling red stalky damaged sold at from 22s. 6d. to 30s. per cwt.

CASCARA SAGRADA is quiet at from 105s. to 110s. per cwt. on the spot.

CASSIA OIL is on the firmer side, with sales of 80 to 85 per cent. c.a. at 4s. 4d. per lb. c.i.f. for distant shipment. The spot price for this test is 4s. 7d. The advance in silver has affected Chinese products.

CASTOR OIL is steady, with good seconds Calcutta offering in Liverpool at 8d. per lb. ex store.

CHILLIES.—At auction 123 bags large red Japanese were retired at 75s. per cwt.

CINCHONA.—At the London auction on Tuesday 176 bales Calisaya were bought in, including quill at 1s. 10d.; 29 bales East Indian Crown chips were also bought in.

CITRIC ACID.—Prices are irregular at from 3s. 4d. to 3s. 5d. per lb., and occasional special lines have been sold at a little under these rates.

CLOVES.—Zanzibar are quiet and slightly easier, with spot sales of fair at 10½d. per lb.; to arrive, March-May shipment is quoted at 10½d. c.i.f., with buyers of June-August delivery at 10½d. In auction nine bags slightly mixed Amboyna sold at 1s.

COCAINE.—Sales have been made of hydrochloride at 27s. 6d. per oz. net.

CORIANDER-SEED is unchanged at 75s. per cwt. on the spot for Morocco, but lower for new crop at 40s. c.i.f. terms for July-August shipment. A parcel of East India at auction was bought in, but privately business has been done at 55s. per cwt.

CUMIN-SEED.—At auction a few bags of fair Morocco sold at 65s. per cwt., and some sea-damaged at 45s. to 55s., being lower, but privately the quotation is 75s. per cwt.

DILL-SEED has been sold at 47s. 6d. per cwt., being steady. **FENUGREEK-SEED** is unchanged at about 39s. per cwt. for Morocco.

FORMALDEHYDE.—The Government has released several parcels, and the trade is gradually getting back into its normal condition. Prices remain unchanged, although the United States is again firmer.

GENTIAN.—Spot holders ask from 75s. to 80s. per cwt., being firmer, as no shipments are taking place from France or Spain. A freight rate of 28l. per ton is asked on drugs from Spain.

GINGER.—At auction 933 bags Cochin and Calicut offered, of which 163 bags small washed rough Cochin sold at 70s. per cwt.; brown rough Calicut was bought in at 70s.; of Japanese 95 bags offered and 35 sold at 38s. 6d. for limed, partly mouldy; fair limed was retired at 50s. per cwt.

GLUCOSE.—We understand that the Food Controller has issued a circular letter, asking all firms dealing in glucose to furnish particulars of their stocks on a form provided.

JUNIPER-BERRIES.—Owing to the higher war-risk insurance and freights, spot holders ask the advanced rate of 32s. 6d. per cwt. for small lots.

LAVENDER OIL.—French continues to advance as the stocks decrease, and it is said that the distillers are now sold out, up to 50fr. per kilo, having been paid for 34 to 36 per cent. on the other side. The new crop is not due until September.

LEAD ACETATE can be had at 95s. per cwt., but a licence has first to be obtained by the buyer.

LEMON OIL.—The spot demand languishes in the absence of adequate supplies of spirit and sugar. Cables from prominent shippers this week quote from 4s. 3d. to 4s. 6d. per lb. c.i.f. London, and on the spot good brands are worth 4s. 3d. We have the following advice from Messina dated June 14: "Since the price of this oil fell again, after the temporary rise, our market with the falling-off in demand from abroad is quiet and calm, and buyers here are showing very little interest, so with stocks on this side still large lower prices are being looked

for. To-day's price for reliable oil is 4s. 3d. per lb. c.i.f. London, including war risk at present rate."

LIME-JUICE.—Owing to the shortage in sugar supplies stocks have rapidly accumulated. On the spot the value of fair raw West Indian is about 2s. 9d. per gal.

LIQUORICE.—During the war the exports of liquorice from Russia have shrunk to a mere fraction of the pre-war figure, and these have gone chiefly *via* the port of Vladivostok; but latterly the Russian Government has given facilities for exports *via* Archangel and the Gulf of Kola, so that a resumption of larger exports may be looked for in the future.

LITHIA CARBONATE is rather firmer at 6s. per lb. on the spot.

MENTHOL continues lifeless, with sellers to arrive at 11s. per lb. c.i.f.

MILK-SUGAR.—The extreme scarcity continues, and holders are getting 210s. per cwt. on the spot for Dutch.

MINT OIL.—Japanese dementholised for July-August and August-September shipment has been sold at 2s. 9½d. per lb. c.i.f., about 150 cases Kobayashi-Suzuki being done at these prices.

NEROLI OIL.—New French has been sold on the Grasso market at 900fr. per kilo, for pure.

OIL, ANISE (STAR), is slightly firmer, with fair business for distant shipment at 3s. 2½d. per lb. c.i.f. for "Red Ship" brand. The spot value is 3s. 5d.

OIL, LIME.—For fair West Indian distilled 8s. per lb. is asked.

OILS AND FATS.—The following are the maximum prices (per ton) fixed by the Government: Castor oil, 80l.; coconut oil, crude 70l., refined 85l.; cotton oil, crude 60l., refined soap oil 67l., refined edible oil 75l., American refined 95l.; gingelly (sesame) oil, 65l.; groundnut oil, crude 78l., refined 90l.; kapokseed oil, crude 55l., refined 70l.; linseed oil, raw 58l., boiled 61l., refined 63l.; nigerseed oil, crude 60l.; oleo oil, 120l.; palm-kernel oil, crude extracted 51l., crude crushed 52l., refined 67l.; palm oil, 44l.; premier jus, 94l.; rapeseed oil, crude 66l., refined 71l., edible 81l.; soya oil, crude 60l., refined 75l.; seal oil, crude 60l.; tallow, imported 68l. All the above prices are for oil or fat net naked ex ship, mill, or warehouse in the United Kingdom in accordance with the previous customary contracts. Packages may be charged extra at current market rates, but not exceeding 4l. per ton on the oil or fat.

ORRIS.—There is a fair spot demand, and the value of good Florentine sorts is fully 80s. per cwt. A fair quantity which was expected has not arrived.

OTTO OF ROSE.—The French rose crop is in process of distillation, but owing to the shortage of fuel, labour, etc., the output of the crop will probably be about half an average. The new will be on the market about the end of the month. Small quantities of finest Bulgarian and Turkish can be had at 85s. per Eng. oz.

PEPPER.—Quiet, with values somewhat nominal; fair black Singapore on spot can be had at 10½d., Aleppy at 11½d., and Tellicherry at 11½d.; fair Singapore white is 1s. 0½d. and Muntok 1s. 0½d. on spot.

PEPPERMINT OIL.—Cables have been received in London this week intimating that the price in New York has advanced fully equal to 6d. per lb. owing to serious frosts, and spot holders now ask from 12s. 6d. to 13s. 3d. per lb. for finest American in tins. H.G.H. is 16s. 6d. to 17s., London terms.

PEPSINS.—The advance which we notified last week has become general, and more business has been done.

PHENACETIN is still selling at 85s. per lb. on the spot, and to arrive 82s. 6d. is quoted. The quantities available at these prices are strictly limited.

PHENAZONE.—Spot sales have been made at 56s. per lb. net; supplies are, however, coming in very slowly. It is reported on good authority that the export duty on many of these chemicals imposed by the French Government has been recently removed, but this is not likely to affect the position much, as very few fine and synthetic chemicals have been received from France for some time past.

PHENOLPHTHALEIN is slightly brisker again at from 90s. to 92s. 6d. per lb. net on the spot.

POTASH PEPMANGANATE is rather dearer, with sellers of pre-war crystals at 15s. per lb.

POTASHES are dearer and in very small supply, first Montreal offering at 200s. and seconds at 195s.

QUININE.—A few contracts have been made during the past week for August delivery, and nothing appears to be available before this position. Makers are not eager to sell, being busily occupied in the execution of outstanding orders, and various spot parcels which have been released by the Government have changed hands at from 2s. 8d. to 2s. 8½d. per oz. for sulphate.

SACCHARIN.—Dealers report sales of 550-strength at 310s.

per lb. net, duty paid, for parcels afloat. Buyers are recommended to keep stocks as low as possible, as fresh English supplies may be on the market in a month or six weeks.

SALICYLATES.—There is still a good inquiry for salicylic acid, but most of the English makers appear to be sold out for spot or early delivery, and little is offered before August-September, that position being quoted at 6s. 9d. to 7s. American to come forward is offered at 6s. 6d. for July shipment. On the spot sales have been made at 6s., but supplies are not plentiful at this price. Sodium salicylate continues scarce on the spot, with sales from 8s. to 8s. 6d., but it is difficult to find sufficient supplies for home trade.

SAOL is worth 9s. to buy on the spot.

SHELLAC is quiet and easier, with TN Orange quality usual standard offering at 205s. per cwt. on spot, and sellers of AC Garnet at 230s.

SPEARMINT OIL has advanced to 12s. 8d. per lb. for American natural.

SULPHUR is steady at 35l. per ton for flowers and 30l. for roll on the spot. The Government prices are as fixed (see *C. & D.*, May 12, p. 50), but the terms and conditions are attractive to consumers only, the 2½-per-cent. discount allowed to recognised sulphur merchants being insufficient.

TARAXACUM.—English is offered at about 110s. per cwt. on the spot.

TARTARIC ACID is quoted at from 3s. to 3s. 1d. per lb. on the spot.

TURPENTINE has been slow almost throughout, American on the spot closing at 54s. 6d.

VANILLIN.—With the recent advance in clove oil, spot holders are asking at least from 41s. to 42s. per lb. for 100-per-cent.

WAX, 'BEES'.—The sales in Liverpool include 139 blocks Sierra Leone at 11l. 3s. 9d. per cwt.

German Drug-markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date of June 6:

AMMON. CHLOR. is badly wanted, but almost unobtainable, makers having entirely withdrawn from the market in consequence of the commandeering of raw material. Only second-hands quote occasionally technically pure, 98 to 100 per cent., at from m.470 to m.500 per 100 kilos.

CEVADILLA.—Stocks have decreased further and consequently prices have advanced. First black is from m.825 to m.835 per 100 kilos.

CONDURANGO is higher in consequence of active demand, but stocks appear to be rather large. Unsifted is from m.380 to m.390 per 100 kilos.

LYCOPodium, thrice sifted, is very scarce at m.11.50 per kilo.

MACE is very scarce and has advanced considerably. Only a few cases are still to be had in Hamburg at from m.25.75 to m.50 per kilo.

MENTHOL has advanced again, without any reason, however, and is m.69.50 per kilo.

OLIBANUM is active as a substitute for colophony and m.790 has to be paid for drop.

OPIMUM is firm and advances in price, though it appears not to be scarce as yet. Purchasers have paid m.75 and more per kilo. Consequently prices of alkaloids have also advanced.

SODA BENZOATE has been advanced to m.8.50 per kilo.

SODIUM SULPHATE.—Crude has again been advanced by m.3 per 100 kilos., on account of scarcity, to m.13 per 100 kilos. now.

Japanese Camphor.

H.M. Commercial Attaché at Yokohama has forwarded, under date April 23, an extract from the local Press, from which it appears that, with a view to exporting camphor in a finished state, it is proposed to erect a camphor-refinery in Formosa to treat the whole of the output of the island, and that a company, with a capital of 1,000,000 yen, is to be formed in Formosa with this object. The camphor produced in Formosa has hitherto been shipped to foreign countries as a crude and semi-refined product, with the exception of a portion which was refined at Kobe.

Bromides in Australia.

A correspondent asks "The Chemist and Druggist of Australasia" why it is that the prices of bromides, salicylates, and other chemicals decline in Australia after the mail has brought out the *C. & D.*, which is seven or eight weeks after the event took place in London. If there were no *C. & D.* Market Report, he asks, would bromides, acid acetosal., etc., still be selling at fancy prices? Bromides came down very stiffly considering the way they fell in U.S.A. This is a question that deserves consideration. Firstly, it must be remembered that if the *C. & D.* Market Report, arriving in Australia, say, on April 5, showed that

the price of bromides had fallen, and the wholesale houses in Australia made a corresponding reduction in the retail price, it is absolutely certain that the bromides they were selling at the reduced price had been bought in England three to five months earlier at the very least, and the prices then paid were higher than the market price reported in the journal that reached Australia on April 5. That is to say, bromides were being sold at the price it would cost to replace them on the day of sale *plus* the legitimate profit. It is true that it might happen that the ship that brought the journal also brought a parcel of bromides. But that parcel would have been bought many days or several weeks earlier, and it might have been hung up in one of the British ports for a fortnight, to five months, and it would certainly be charged on the invoice at the price in the open market on the day of sale, and not on the day that it left England. The correspondent in question speaks of the slowness with which the price of bromides fell. He does not complain that the price of bromides rose equally slowly, and was not put up until after the arrival of the *C. & D.* Market Report; the one incident is the natural complement to the other. The only safe rule for the conduct of business, whether in a distant market like Australia or in London, is to sell the article at the cost of replacement *plus* the legitimate profit. If this is not done on the rising market, then when the market begins to decline the trader will find that his capital is being rapidly dissipated.

Arrivals of Chemicals, Drugs, etc.

The following is a selection of imports into the Ports of London and Liverpool for the period June 11 to 18 inclusive:

To London.	Oils, essential, 298 cs.	March 13, 144 pkgs.
Acetanilide, 34 brls.	71 dms. 4 cbsys.	wax.
Acetic acid, 397 brls.	cajuput, 80 cs.; syn-	
6 drms. 20 cbsys.	thetic, 3 cs.	
Aloes, 58 cs.	Oils, fixed: arachis, 10	
Anatto powder, 2 cs.	cks. 1,000 cs.; castor,	
Antim., crude, 527 tons	330 cks. 252 dms.;	
Argol, 765 bgs. 143 cks.	coconut, 22 pps. 4	
Arsenic, 1,000 cwt.	pins. 2 hds.; fish, 350	
Asthma-cure, 30 bxs.	cs.; olive, unref., 825	
Baking-powder, 1,500	gals.; ref., 126 gals.	
pkgs.	1 tun; rape, 1,650	
Balsams, 9 cs.	cs.; seed, 500 cs.;	
Barbitone, 1 cs.	shark, 500 cks.;	
Benzaldehyde, 1 cs.	wood, 3,699.	
Benzol comp., 42 cs.	Opium, 20 cs.	
Benzyl acetate, 1 cs.	Oxalic acid, 73 cks.	
Beta naphthol, 4 brls.	Paraformaldehyde, 4 cs.	
Bromides: potash, 5	Perfumery, unref.,	
cs.; soda, 20 brls.	1,264; toilet-pow-	
Camphor, 200 cs.	der, 897.	
Cannab. ind., 12 cs.	Petrolatum, 500 brls.	
Cantharides, 20 cs.	Phenolphthalein, 2 cs.	
Capsules, gelatin, 13 cs.	Potash iodide, 50 cs.	
Cascara sag., 51 sks.	Potash muriate, 962	
Casein, 1,695l.	bgs.	
Chemical prod., un-	Pyrogallie acid, 2 cks.	
rated, 5 cs. 6,458	3 cs.	
dms.	Quinine, 50,000 oz.	
Chloral hydrate, 400 lb.	Quinine ethyl carb. 1	
Cinchona, 281 bls. 19	cs.	
cs.	Resorcin, 1 kg.	
Cobalt salts, 12 brls.	Rhubarb, 43 pkgs.	
Coca-leaves, 77 bgs.	Roots and herbs, 72	
Cochineal, 2 bgs.	pkgs.; herbs, dried,	
Copaiba, 30 cs.	39 bls.	
Cream of tartar, 4 cks.	Rosin, 298 cks.	
32 brls.	Sal hepatica, 6 cs.	
Cuscuta, 39 bls.	Salol, 25 kgs.	
Dental goods, 5,434l.	Saw palmetto, 6 bgs.	
Diacetyltannin, 1 cs.	Seeds (bgs.): anise, 50;	
Dimethylsulph., 2 dms.	annatto, 214; canary,	
Drugs, various, 17 cs.	409; castor, 8,196;	
Dyedwood ext., 50 cks.;	coriander, 306;	
gambier, 158 bgs.	croton, 19; dill, 64;	
Ethyl chloride, 1 cs.	fennugreek, 396; lin,	
Foot-powder, 22l.	7,175 bgs. 100 tons	
Formaldehyde, 26 brls.	Shellac, 37 cwt.	
Fusel oil, 1,188l.	Soap, toilet, 194l.	
Galls, 900l.	Soda benzoic, 1 ck.	
Gelatin, 801l.	Soda butyrate, 3 kgs.	
Glycerin, dist., 370l.	Soda, caustic, 20 cwt.	
Glycerophosph. calc., 3	Soda salicyl., 32 cwt.	
cs.	Starches (cwt.): dex-	
Gums (cwt.): acacia,	trin, 1,000; farina,	
200; benzoin, 80;	700; maize, 9,571;	
copal, 4,393; damar,	potato-flour, 3,530;	
652; sandarac, 64	rice, 739	
Hydroquinone, 3 cs.	Tartaric acid, 80 kgs.	
Indigo, 44 cts.	Theobromine, 4 cs.	
Insect-powder, 4 cs.	Thorium nit., 6,100l.	
Menthol, 20 cs.	cerium nit., 61l.	
Methyl salicyl., 10 cs.	Wax (mostly bees'), 63	
Milk-sugar, 100 cs.	bgs. 253 cs.	
Mineral jelly, 795 cs.	Wax, paraffin, 20,066	
Nuts and kernels:	cwt.	
copra, 120,436 cwt.	Cancelled entries.—Jan.	
Ointment, 103l.	13, 74 bls. senna;	

To Liverpool.

Acetic acid, 138 brls.

Acetone, 2 cs.

Argol, 511 bgs.

Barium bromide, 10 cs.

Benzol, 6 brls.

Calabar beans, 65 bgs.

Cochineal, 5 bgs.

Cod-liver oil, 121 brls.

73 cks.

Cream of tartar, 24 cks.

25 brls.

Dental goods, 109l.

Drugs, unref., 398

pkgs. 62 bls. 289 bgs.

341 cs.

Dyestuffs, unref., 356

bls. 2 kgs. 19 brs. 25

dms.; chestnut ext.,

1,835 cks.; catch,

250 bxs.; fustic ext.,

4 brls.; fustic liquid,

100 brls.; hemlock,

ext., 333 brls.; log-

wood, 6 tons; log-

wood ext., 11 brls.

374 cks. 800 bxs.;

quercitron ext., 1,000

bxs.; sumach, 50 bgs.

Formaldehyde, 245 brls.

Glycerin, ref., 10 bxs.

Gum copal, 16 bgs.

Gum thus, 25 brls.

Lactic acid, 18 brls.

Nickel oxide, 138 brls.

Nuts and kernels (bgs.):

arachis, 12,456; copra,

270; palm, 93,358

Oils, essential, 17 dms.

1 cs.

Oils, fixed: coconut, 10

cs.; cod, 225 cks.;

palm, 2,676 cks. 20

dms.; seal, 904 cks.

Potash bromide, 100

bxs.

Pyrogallie acid, 3 cs.

Rennet ext., 5 cks.

Rosin, 9,000 brls.

Saffron, 1 cs.

Seeds (bgs.): castor,

187; canary, 120,

500 sks.; cotton,

6,375; lin., 99,139

Shellac, 10 pkgs.

Soda bromide, 2 brls.

Soda nitrate, 31,665

bgs.

Surg. instr., 108l.

Thorium, 9 cs.

Vanilla, 25 cs.

Vaseline, 42 cs.

Wax, bees', 1,028 pkgs.

Wax, paraffin, 500 cs.

547 bgs. 800 pkgs.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Perfumers' Spirit.

SIR,—The manufacturing trade has been dumbfounded by the enormous advance in the cost of spirit for perfumery purposes. I trust you will pardon me for recalling certain facts, which may amount to reiteration, but I think you will agree with me that I am justified in calling your attention, and that of the trade, to what I consider is, so far as I am able to find out, an unjustified instance of "profiteering." A few months ago, you will remember, the French Government prohibited the exportation of spirit; the British Government then limited the distillation of spirit from grain and commandeered the distilleries. Subsequently the Advisory Alcohol Committee was appointed, consisting mostly of distillers. On the advice of this Committee the Government, through Sir Frederic Nathan, prohibited the importation of American and Dutch spirit, and a rise of 1s. and 2s. per gal. almost immediately followed in British spirit. Several weeks ago 60 over proof perfumery spirit was offered at 34s. per gal. An Order was issued by Sir F. Nathan that only grain spirit was to be used for medicinal purposes, and none whatever for perfumery purposes. Later the Director of Propellant Supplies said that he saw no reason against, or had no objection to, whisky, rum, and foreign spirits being taken out of bond for redistillation for perfumery purposes, and this is now being done to a considerable extent. I had a circular placed in my hands from a rectifier some ten days ago quoting 58 o.p. at 45s. per gal., and 60 o.p. at 46s., duty paid. This is an advance of 15s. on the previous prices, and I have endeavoured, with the aid of an average intelligence, to trace the reason for this huge increase, but after a good many inquiries I am loth to confess my abject failure. The suggestion arises in my mind that placing these facts before you may do something to unravel the mystery. At the same time, I hope Sir F. Nathan's attention and that of the powers that be will be drawn to the matter, as it appears to me that the manufacturing trade and the public generally are completely at the mercy of those who have large holdings of bonded spirits.

Yours faithfully,

W. BONSER HAYWARD.

17 Laurence Lane, London, E.C., June 19.

The Title "Chemist."

SIR,—I, for one, heartily agree with Mr. R. Cecil Owen in his plea for the perpetuation of our legitimate title. It is only the snob or tyrant who would deprive us of it. The following amusing little incident would signify "bad weather" for the "ice-breakers." Hoping to set the sea on fire when I "launched" (in business) at a well-known watering-place a few years ago, I commenced by "painting the town red" in part. The "part" consisted in the sign which reached almost half-way across the road from my shop, and the red paint was used for the word "pharmacist." Being engaged in conversation with a customer on a certain day, I was unable to leave my post when I overheard this amusing, though exasperating, remark from a moneyed, though uneducated, tripper who was "without" (in more "senses" than one): "Naw, not 'ere; this is only a bloomin' farmer kissed; there's a chemist 'igher up." The moneyed ones disappeared "igher up," but I arranged for the guilty "farmer" to come down and change his "coat" for the old title "chemist"!

W. E. G. (58/44.)

Store Trade.

Nil Desperandum (29/27) writes on the development in retail pharmacy of methods allied to multiple-store trading, criticising them severely, and proceeds thus: "What of the future? Stores, I think, are more likely to deteriorate than improve as regards their so-called pharmacy. But they will continue and put up at times a big bluff. There will be always the high-class pharmacy as now, where the best and the bulk of dispensing will be done, here and there the super-pharmacist, expert analyst, or bacteriologist, etc.; but I have no belief that anything great will accrue from this source. Let a pharmacist become expert in this field, and he should, to make it professional and profitable, cut himself adrift from the shop.

People never expect to pay a guinea fee to a counterman. There will always be with us and our successors the small man who is content to be something of a huckster and dabbler in various ways. If the young chemist were less improvident and prone to early and poverty-stricken marriages, something might be done to kill the stores. The well-trained young chemist is a man who could and he would save money; he might be very much of a gentleman, and his money and his wife's ought to keep him in a business of his own. I am prepared to see State dispensing; the stores will bluff, of course, but the N.H.I. Commissioners have all the figures, and their figures should rule. Work must be found for the men returning from the wars—many of them broken—and I for one would agitate for local dispensaries. Better a dinner of herbs and a wage-list of the Post Office pattern than service with the stores."

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Bread-improver.

J. W. W. (57/56) writes: "I notice your reply to 'Magnezia' in the *C. & D.*, June 16, p. 52, and can add that we found the addition of Epsom salt to war-flour was not a success. We found no appreciable difference in colour, but there resulted a slightly bitter taste."

Profiteering.

An Irish Chemist (59/53) writes: "What would 'Jay Mack' think of the following advertisement that is being used by a chemist who lives in a neighbouring town?—

'Only the best, good enough for our customers' was the watchword of our business in 1817, as it is to-day. Let us see if we cannot knock a slice of the 'profiteering' off that prescription of yours.'

Our correspondent adds that he could understand such advertising in the case of a grocer or ironmonger, but he considers it unsuitable for the drug-trade.

Turpentine Liniment.

"The suggestion, some time ago, of a correspondent to reduce the soap with the water and to add to this the solution of camphor in the turpentine, stirring with a rod, was quite good, except that if more than three-quarters of the soap ordered is employed the liniment will be too thick. A better method is to reduce the soap and camphor with the turpentine, added gradually until solution is effected, and thereafter to add the water and shake well. If the temperature is low the mixture will curdle, but recovers with warming. The resulting liniment is quite satisfactory. I hope you will not accord any of your space to those who think that a great deal more turpentine and other things equally valuable should be wasted over the unfortunate B.P. formula."—C. (91/19).

Syrupus Ferri Iodidi.

Mr. Chas. E. B. Merriman, 74 Trent Boulevard, West Bridgford, Nottingham, writes: "Surely 'Abel Scholar' is joking; I can quite believe that the 4 fl. oz. is a puzzle to the lady examinees at the Hall, or to anyone else who has not made the preparation and ascertained the particulars 'Abel Scholar' asks for, but really he could have settled the matter very easily on his dispensing-counter, and that without fear of being 'ploughed.' The sp. gr. of the syrup is 1.358-1.362, consequently the final volume will be about 735 c.c. A convenient quantity to make in order to obtain the 4 fl. oz. is 2,500 grains—i.e., two and a-half times the B.P. figures in grains. This makes a trifle over, but that is more than compensated by the saving of time and 'grey matter' in avoiding a more complicated calculation. I suppose 'instead of the water' should read 'except the water.'"

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

J. E. E. (58/9).—The reply to "J. M." answers the point you raise regarding the display of santal-oil capsules in the window.

Anxious (54/4).—The place-name "pharmacy" can be used by persons other than registered chemists. This was the decision in the Mercer case (see *The Chemist and Druggist Diary*, 1917, p. 360).

Camroc (55/34).—ANTI-STING LOTION.—The Board of Customs and Excise has stated that such labels are not liable to stamp-duty, for the reason that bites and stings of insects are not diseases. (See *The Chemist and Druggist Diary*, 1917, p. 486, or *THE CHEMIST AND DRUGGIST*, September 13, 1913, p. 63.)

J. C. (47/44).—LIABILITY TO STAMP-DUTY.—You do not state whether you claim any proprietary rights in the name of the ointment, but, apart from that, it is distinctly recommended for "cuts or sores." If the formula were registered as a "known, admitted, and approved" remedy, and the reference number given on the label, you as a chemist could sell the ointment without incurring liability to stamp-duty.

Beacon (55/4).—SALE OF DIACHYLON.—The expression in the "Gazette" notice scheduling lead plaster is "lead in combination with oleic acid or other higher fatty acids, whether sold as diachylon or under any other designation (except machine-spread plasters)." The plaster which you sell, and which contains "red-lead, resin, beeswax, etc.," is probably included. This depends upon the method of making the plaster, etc., but it would in any case be difficult to prove that the lead had not combined with some of the fatty acids of the beeswax. The inclusive nature of this new entry in the Poison Schedule has been referred to in the *C. & D.*, May 5, p. 34, and May 12, p. 44.

Perplexed (54/38) wishes to know whether an allowance for meals is subject to income-tax? [This depends upon the circumstances under which it is received. If the allowance is a sum of money, payable to an employé in the course of his employment, we think that such an allowance is subject to income-tax, but the point does not appear to have come up before the Courts for express decision; and if, instead of the allowance for meals, the employer supplied the meals himself, no income-tax would be payable on the value of them. Income-tax is only charged on something which is a benefit in money or capable of being turned into money. On the other hand, if the allowance were by way of gift, and not as an emolument of office, it would not be subject to income-tax.]

J. M. (49/42).—VENEREAL DISEASE ACT.—The Act became law on May 24, but no part of it is yet in force. Section 1, which prevents the treatment of venereal disease by persons who are not medical practitioners, only operates in areas to which it is applied by order of the Local Government Boards for England, Scotland, and Ireland. A condition that has to be fulfilled before the section can be declared in operation is that a scheme for gratuitous treatment of venereal disease must be working. There has been a scheme in London since the beginning of the year, but so far no order has been made by the Local Government Board. Whether this will be made soon is not known, as the Local Government Board has so far not answered an inquiry we addressed to that body some time ago. In regard to Section 2, the date when this comes into operation is stated in the Act to be November 1, 1917. Mr. Glyn-Jones has pointed out (*C. & D.*, June 9, p. 45) that the effect of his amendment as embodied in this section is that pharmacists can say whether the labels and literature used in connection with these diseases are legal or not by asking themselves whether these would have rendered the articles liable to stamp-duty, assuming that the exemptions as to "known, admitted, and approved remedies" did not exist. If the use of the labels or literature would render the articles liable to stamp-duty, it will be illegal after November 1 to use them at all in connection with syphilis, gonorrhœa, or soft chancre. The Act does not stop the sale of copaiba or santal-oil capsules, but when Section 1 is in operation these must not be prescribed, nor must advice be given in connection with these drugs.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Res (50/73).—ANTI-FOULING COMPOSITIONS FOR SHIPS' BOTTOMS.—These are generally *ad hoc* paints, and some of them contain arsenic. You will hardly be successful in using ordinary paint to which arsenic has been added, as it is necessary to use a composition more in the nature of a varnish. We could give you formulæ for these if desired.

J. M. (59/42).—DISAPPEARING INK is said to be a weak solution of iodine—the tincture, for example. You ought, however, to make sure that the "ink" is not to be employed for an illegitimate purpose.

Galloper (27/57) asks us: "Can a man of military age (say, thirty), the qualified director of a limited company of chemists, have total exemption from the Army on any grounds, with the exception of being medically unfit?" [Unless he can prove that calling him up means that prescriptions will not be dispensed by the company he will not be exempted conditionally, and total exemption is, happily, not assured to any fit person.]

Edelweiss (48/70).—DULCIN OR SUCROL.—The process of making this, as given in Riedel's expired patent (No. 10350 of 1893), is as follows:

Para-phenetidine, 1,000 grams, is heated with nitrate of urea 2,000 grams, and water 5,000 grams, for six hours by means of a reflux condenser. After cooling and filtration, there is obtained 700 grams of *p*-phenetol carbamide. The mother-liquor is further heated in the reflux condenser for about four hours, and thereby a further 600 grams of *p*-phenetol carbamide is obtained.

Another process consists in heating the hydrochloride of *p*-phenetidine with free urea to about 120° C.

J. H. S. (48/74).—PERFUME FOR SPRAYING CINEMATOGRAPHTHEATRES:

Lavender oil	...	...	2 oz.
Rose-geranium oil	...	...	1 oz.
Bergamot oil	...	...	½ oz.
Formalin	...	...	1 oz.
Spirit to make	...	...	16 oz.

Mix.

This is diluted in the proportion of 1 oz. to 40 oz. of water, and sprayed in cinematograph-theatres for the purpose of purifying the air.

P. L. (48/41).—When fruit is formed on gooseberry-bushes the ordinary remedies against caterpillars cannot be employed—i.e., poisonous washes. The best procedure is to employ schoolchildren to pick off the caterpillars. Next year, before the fruit forms, a suitable wash should be used to prevent the occurrence of the pest.

W. P. S. (48/23).—MATERIA MEDICA BOOK.—We think you are referring to the "Manual of Vegetable Materia Medica," which is issued by the Westminster College of Pharmacy. Write to the Secretary, 402 Clapham Road, London, S.W., about the matter.

P. G. (2/34).—IONIC MEDICATION.—The thiosulphate ion is used by French practitioners in the treatment of sciatica, but we cannot find any definite statement in regard to the strength of the solution of sodium thiosulphate employed. You should start with a 2-per-cent. solution in distilled water, which will probably be found quite strong enough for the purpose.

Kevenport (59/28).—FRUIT-PRESERVING.—The fruit employed in the process of preservation outlined in the *C. & D.*, June 9, p. 51, requires to be ripe, but not over-ripe.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," June 15, 1867.

Paris Universal Exhibition.

Our Special Correspondent contributed another report on the chemical and pharmaceutical products, beginning with an account of the exhibit by Davy, Yates & Routledge, which included mercury compounds and scale preparations. Allen & Hanbury's case included cod-liver oil and extractum carnis. Morson & Son exhibited, *inter alia*, meconine and other opium products, podophyllin, physostigmin, methysticin, and other products. Huskisson & Sons had a large exhibit of chemical products, including a very interesting crystal of sulphur, as well as the mineral acids. Howards & Sons' exhibit included benzoic acid, boric acid, ammoniacal salts, and other compounds. Messrs. McFarlane, of Edinburgh, exhibited opium alkaloids, including magnificent crystals of codeine, as well as specimens of its salts, and of meconine, narceine, narcotine, cotarnine and their salts, and Dr. Matthiessen's new opium compounds. The exhibit by Johnson & Matthey was referred to, also one by Peter Squire, which contained extracts and other galenical preparations. Johnson & Sons showed nitrate of silver, and Mr. Ransom, of Hitchin, a fine collection of essential oils, as well as a specimen of scammony-root. Grace, Calvert & Co., Charles Lowe & Co., and L. Demuth & Co. exhibited carbolic acid and allied compounds, while Mr. E. C. Stanford exhibited iodine and other seaweed preparations; and other exhibits were made by Hosegood & Co., Wilkinson, Haywood & Co., Hare & Co., Holland, of Market Deeping, Twinberrow & Sons, Mr. Schweitzer, Mr. Usher, of Bodlicott, and others.

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Pyramidon.CRYOGENINE HAS A HIGH REPUTATION AS A
GENERAL ANTIPYRETIC AND
POWERFUL ANALGESIC.LANCET, ii., 1909, p. 1812: "... The above case is
one out of a number of successful results obtained from the
use of this remedy (Cryogenine) contrasted with Pyramidon,
which certain writers regard as the best drug for phthisical
temperature. I think there can be little doubt 'Cryogenine'
is the safer and more efficacious antipyretic. . . ."

J. E. G——, M.D.

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This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

Concentrated Crystal Soda.

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali. 58 Degrees.

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure Soda Crystals Caustic Soda.

Manufactured from pure Carbonate of Soda, and supplied of all degrees of strength.

Bleaching Powder. Carbonate of Ammonia (Lump and Powder).

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

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N.B.—Prices quoted herewith are for preparations according to the New Pharmacopoeia, 1914.

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N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

Fol. Senna Tinnev., 1 cwt. @ 7½d. lb.; 7 lbs. @ 8½d. lb.; English Ground, 56 lbs. @ 10d. lb.; 7 lbs. @ 1½ lb.
Formaldehyde, 40%, 4 cwt. barrels @ cwt.; 7 lbs. @ 1¼ lb.
Fuller's Earth, fine powder or lump, 5 cwt. @ 9/- cwt.; 1 cwt. @ 10/-.

Galls Carol. Pulv., 7 lbs. @ 2/- lb.; Gamboge, English Ground, 7 lbs. @ 5/6 lb.; 1 lb. @ 1 lb.
Ginger, English Ground, 1 cwt. @ 85/- cwt.; 7 lbs. @ 10½d. lb.
Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.
Glycerin. Opt. D.D., 1.260 P.B., @ cwt.
" Acid. Boric, P.B., 6 lbs. @ 2/3 lb.
" Acid. Carbolic, P.B., 6 lbs. @ 1/10 lb.
" Acid. Tannic, P.B., 6 lbs. @ 2/6 lb.
" Belladonna B.P.C., 6 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.
" Glycerin. Boracic, P.B., 6 lbs. @ 1/8 lb.
" Pepsin. Acid, P.B., 1 lb. @ 3/6 lb.
" Plumbi Subacet., P.B., 6 lbs. @ 2/6 lb.
Guaiacol Carb., 1 lb. @ 16/- lb.
Guaiacol, pure, 1 lb. @ 1 lb.
Gum Acacia sorts, 3 cwt. @ 75/- cwt.; 1 cwt. @ 80/- cwt.; 7 lbs. @ 10½d. lb.; English Ground Powder, No. 1, 1 cwt. @ 140/- cwt.; 7 lbs. @ 1/6 lb.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/2 lb.
Gum Benzoin, Sumatra, 84 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.
Gum Catechu Nig., English Ground, 1 cwt. @ 105/- cwt.; 14 lbs. @ 1/- lb.
Gum Guaiac, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.
Gum Juniper, 14 lbs. @ 1/- lb.
Gum Thui Elect., 2½ cwt. @ 48/- cwt.; 28 lbs. @ 52/- cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 10/- lb.; 1 lb. @ 11/- lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/9 lb.
Heliotropine, 1 lb. @ 30/- lb.
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 52/6 cwt.
Hexamethylenetetramine, 7 lbs. @ 4/9 lb.; 1 lb. @ 5/- lb.
Honey, Pale Set, 28 lbs. @ 1/1 lb.
Hydrargyrum, P.B., 10 lbs. @ 7/6 lb.; 1 lb. @ 7/10 lb.; Ammon., 28 lbs. @ 8/4 lb.; c. Creta, 28 lbs. @ 2/10 lb.; Iodid. Rub. 28 lbs. @ 12/8 lb.; Oxid. Rub., 28 lbs. @ 8/4 lb.; Perchlor., Lump, 28 lbs. @ 8/1 lb.; Subchlor. 28 lbs. @ 7/10 lb.; Sulph. c Sulph., 28 lbs. @ 7/4 lb.; 7-lb. quantities 1d. lb. extra. 3-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.
Hydroknone, 1 lb. @ 16/- lb.

Ichthyol Ammon. chemical equivalent: Ammon-Ichthosulphonas, B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/10 lb.
" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
" Buchu Conc., 1 to 7, 6 lbs. @ 2/11 lb.
" Calumbæ Conc., 1 to 7, 6 lbs. @ 1/3 lb.
" Caryoph. Conc., 1 to 7, 6 lbs. @ 1/4 lb.
" Cascarilla Conc., 1 to 7, 6 lbs. @ 1/7 lb.
" Cinchona Acid, 1 to 7, 6 lbs. @ 1/11 lb.
" Gentiana Conc., 1 to 7, 6 lbs. @ 1/4 lb.
" Quassia Conc., 1 to 7, 6 lbs. @ 1/- lb.
" Rhei Conc., 1 to 7, 6 lbs. @ 1/10 lb.
" Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 2/11 lb.
" Senegæ Conc., 1 to 7, 6 lbs. @ 2/8 lb.
" Valerian Conc., 1 to 7, 6 lbs. @ 1/10 lb.

Insect Powder, Opt., English Grd., closed flowers, 7 lbs. @ 3/- lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/10 lb.
Iodoform Pulv. B.P., 7 lbs. @ 18/- lb.; 1 lb. @ 18/6 lb.
Iodum, resub. B.P., 7 lbs. @ 14/11 lb.; 1 lb. @ 15/8 lb.
Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ 1/8 lb.; sifted, 2/- per lb.
Lapis Pumicis, fine powder, 2 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.; lump, 2 cwt. @ 18/- cwt.; 7 lbs. @ 3d. lb.
Licorice Juice, Sticks, 1 cwt. @ cwt.; 28 lbs. @ 2/3 lb.; 7 lbs. @ 2/4 lb.
*Lin. Aconitii Meth., 5 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.
" Bellad. Meth., 5 lbs. @ 8/8 lb.; 1 lb. @ 9/- lb.
" Camph. P.B., 9 lbs. @ 1/3 lb.
" Sapo Meth., 9 lbs. @ 1/4 lb.
" Tereb. Acet., B.P., 5 lbs. @ 1/3 lb.
Linsed c. Oil, Crushed, 3 cwt. @ 44/- cwt.; 1 cwt. @ 46/- cwt.
*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 1/4 lb.; 1 lb. @ 1/7 lb.
" Ammon. Aromat., 6 lbs. @ 11d. lb.
" Antim. Chlor. Pure, 8 lbs. @ 10d. lb.
" Arsenicalis, B.P., 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.
" Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
" Bismuth. P.B., 6 lbs. @ 1/7 lb.
" Copaiba Buchu et Cubeb, 5 lbs. @ 3/6 lb.; 1 lb. @ 3/3 lb.
" Easton, p.s. 1-3, B.P., 1 lb. @ 5/6 lb.
" Ferri Dialysatus, 6 lbs. @ 1/7 lb.
" Ferri Iod. p.s., 1-7, 1 lb. @ 7/3 lb.
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" Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/7 lb.
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" Hypophosph. Co. p.s., B.P.C., 1 lb. @ 4/4 lb.
" Iodi Fort. B.P., 5 lbs. @ 7/4 lb.
" Morphina Acet. or Hydrochlor., P.B., 6 lbs. @ 4/3 lb.
" Opil Sed., 5 lbs. @ 6/4 lb.
" Plumbi Subacet., P.B., 7 lbs. @ 7d. lb.
" Pruni Virg. p.s., 1-7, 5 lbs. @ 2/10 lb.
" Rhoeados pro Syr., 1 to 7, 5 lbs. @ 2/9 lb.
" Rhei, p.s., 1-7, 6 lbs. @ 3/2 lb.
" Santali Co., 1 lb. @ 5/6 lb.
" Senna Dulc., 6 lbs. @ 1/9 lb.
" Senna pro Syr., 1-7, 6 lbs. @ 3/5 lb.
" Strychnina Hyd. P.B., 6 lbs. @ 2/2 lb.
" Toluit. pro Syr., 1-7, 6 lbs. @ 1/11 lb.
" Trinitrini, P.B., 1 lb. @ 7/3 lb.
Lithia Carb. P.B., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.
" Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.
Lycopodium, 7 lbs. @ 7/9 lb.

Mag. Calc. Levis, 1 lb. @ 2/6 lb.
Mag. Calc. Pond., 7 lbs. @ 3/3 lb.; 1 lb. @ 3/6 lb.
Mag. Carb. Pond., 7 lbs. @ 11d. lb.
Mag. Carb. Levis, 1 cwt. @ cwt.; 7 lbs. @ 1/3 lb.
Mag. Cit. Gran., 28 lbs. @ lb.; 6 lbs. @ 2/1 lb.
Mag. Sulph., fine druggists', B.P., 1 cwt. @ 27/6; 28 lbs. @ 4d. lb.
Manna, Flake, 14 lbs. @ 6/- lb.; 7 lbs. @ 6/2 lb.; 1 lb. @ 6/9 lb.

Menthol, dry white cryst., 60 lbs. @ 12/10 lb.; 5 lbs. @ 13/3 lb.
*Mist. Senna Comp., B.P., 20 lbs. @ 8d. lb.; 6 lbs. @ 9d. lb.
Morphina Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 15/6 oz.; 16 oz. @ 16/- oz.; 8 oz. @ 16/6 oz.; 1 oz. @ 17/- oz.; Pus. Præcip. Bicarbonate or Tart., 1 oz. @ 20/6 oz.; Morphina Diacetyl, 4 oz. @ 23/- oz.; 1 oz. @ 26/6 oz.; Hydrochlor., 6d. per oz. less.
Myrrh, Gum, English Ground, 28 lbs. @ 2/2 lb.; 7 lbs. @ 2/6 lb.

Naphthalene, Candles, 7 lbs. @ 8½d. lb.
Nux Areca, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 102/- cwt.; 7 lbs. @ 1/2 lb.

Oil. Amygdal. Ang., B.P., 9 lbs. @ 3/0½ lb.
Ol. Anethi Ang. B.P., 1 lb. @ 30/- lb.
Ol. Anisi, E.L., 66 lbs. @ 3/8 lb.; 16½ lbs. @ 4/- lb.; 4½ lbs. @ 4/5 lb.; 1 lb. @ 4/8 lb.
Ol. Aurant., 12 lbs. @ 11/6 lb.; 1 lb. @ 12/- lb.; not guaranteed absolutely pure.
Oil of Bays, genuine W.L., 1 lb. @ 14/6 lb.
Ol. Cajuput., B.P., 21½ oz. bots. @ 4/9 lb.
Ol. Camphor. Essent., White, 40 lbs. @ 1/- lb.; Brown, 40 lbs. @ 120/- cwt.
Ol. Caryoph. Ang., B.P., 9 lbs. @ 8/- lb.; 4½ lbs. @ 8/4 lb.
Ol. Cassia, 16 lbs. @ 4/6 lb.; 6 lbs. @ 4/9 lb.
Ol. Cinnam., 1 lb. @ 32/- lb.; 1 oz. @ 2/3 oz.
Ol. Citronella, 9 lbs. @ 2/3 lb.
Ol. Coco Nucleis, finest White, 80 lbs. @ 79/6 cwt.; 40 lbs. @ 81/6 cwt.
Ol. Eucalypt., P.B., 1 cwt. @ 2/6 lb.; 28 lbs. @ 27/10 lb.; 9 lbs. @ 2/8 lb.
Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-0½ bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turp., 1 lb. @ 15/- lb.; 4 ozs. @ 16/6 lb.
Ol. Gynocardia, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.; Juniperi Ligne Exot., 9 lbs. @ 9/- lb.
Ol. Lavand. ab Flor., 5 lbs. @ 17/- lb.; 1 lb. @ 18/- lb.
Ol. Menth. Pip. English, 5 lbs. @ 56/- lb.; 1 lb. @ 52/6 lb.; Hotchkiss original bots., 21 ozs. each @ 16/9 lb.; 6 bots. @ 16/6 lb.; 18 bots. @ 16/- lb.; American, 20 lbs. @ 12/- lb.; 4½ lbs. @ 13/- lb.; 1 lb. @ 13/6 lb.; Japanese, 60 lbs. @ 3/10 lb.; 5 lbs. @ 4/6 lb.
Ol. Morrhua, 1916, finest non-freezing, 2-gall. tins @ 20/- per gall.
Ol. Myrrbane, 9 lbs. @ 3/- lb.
Ol. Myristica, 7 lbs. @ 7/6 lb.; 1 lb. @ 8/- lb.; Ol. Nucis Pallid., 2 gall. tins @ 9/3 gall.
Ol. Oliva, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 11/3 gall.; 2 gall. tins @ 12/3 gall.
Ol. Origan. Rub., Coml., 28 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.
Ol. Peach Kernel (so-called), 1 cwt. @ 15½ lb.; 56 lbs. @ 17/7 lb.; 9 lbs. @ 1/9 lb.
Ol. Pulegi B.P., 5 lbs. @ 6/6 lb.; 1 lb. @ 6/10 lb.
Ol. Ricini Alb. Opt. Medicinal, 40 lbs. @ 110/- cwt.; 9 lbs. @ 1/- lb.; for export, 1 cwt. drums recommended.
Ol. Rosmarini, Coml., 28 lbs. @ 2/3 lb.; 9 lbs. @ 2/6 lb.; B.P., 9 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.
Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 53/6 lb.; 1 lb. @ 54/6 lb.
Ol. Sassafras, genuine, 28 lbs. @ 3/10 lb.; 1 lb. @ 4/5 lb.
Ol. Theobroma, B.P., 8-oz. tabs., 28 lbs. @ 2/1 lb.; 7 lbs. @ 2/2 lb.
Ol. Wintergreen, Artificial, 5 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.
Oplum, B.P., 14 lbs. @ 45/- lb.; 3 lbs. @ 46/- lb.; 1 lb. @ 46/6 lb.; powder, 6d. lb. extra.

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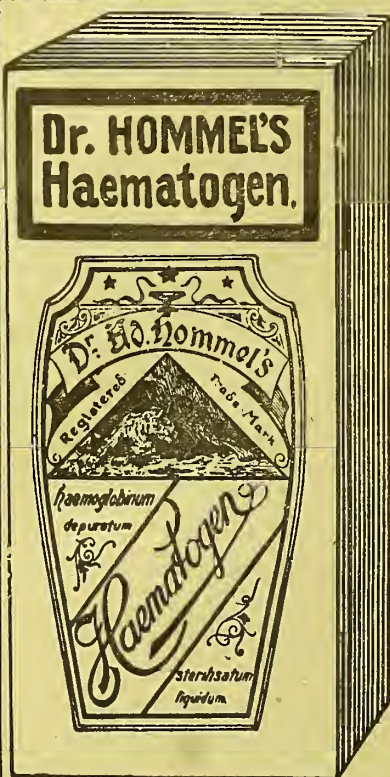
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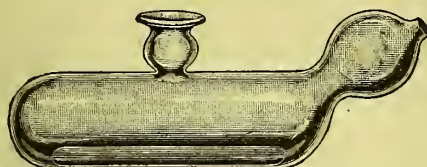
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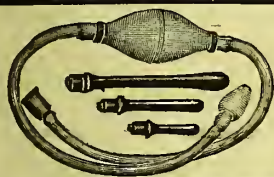
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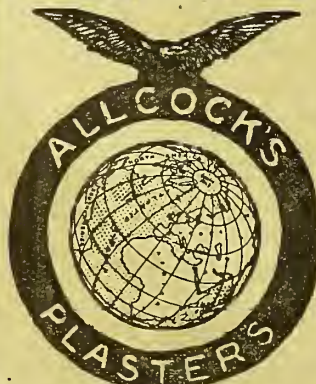
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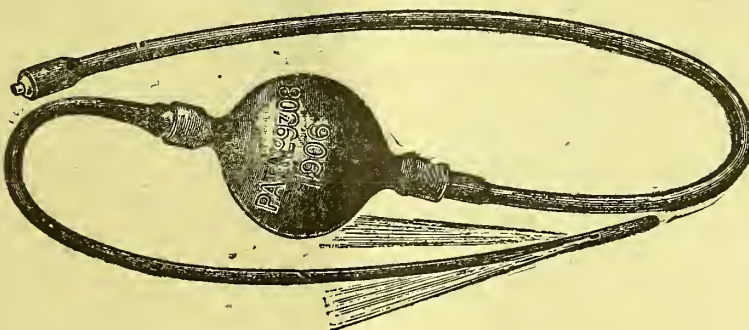
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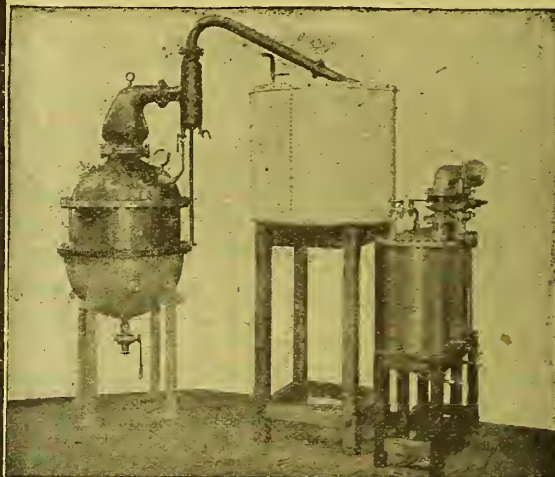
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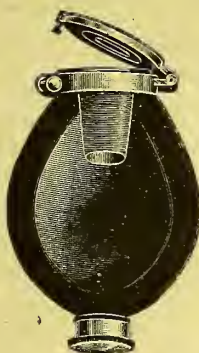
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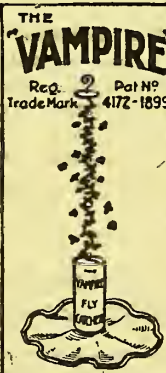
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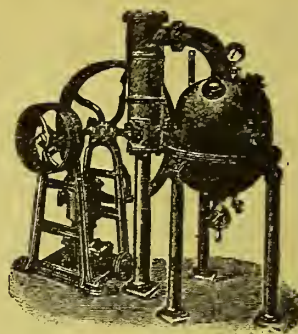
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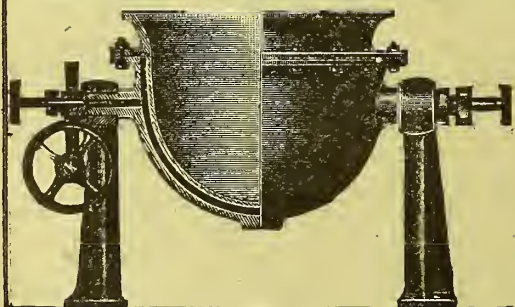
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Dry White Precipitate, containing about 70 per cent.
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The liquid hair remover



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The intelligent depilatory.
Simple, safe and effective.
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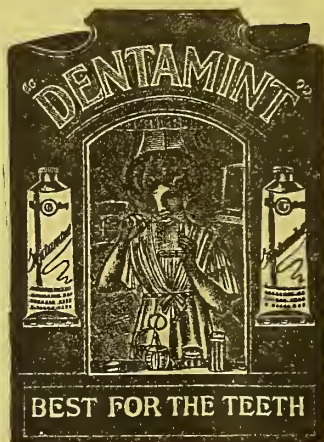
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In neat tubes, packed in separate cartons as illustrated.
Six cartons in an outer box which forms an attractive display.

Sample tube free.

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OVER 100 % PROFIT
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One solution, nine shades.

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SPECIAL BONUS.

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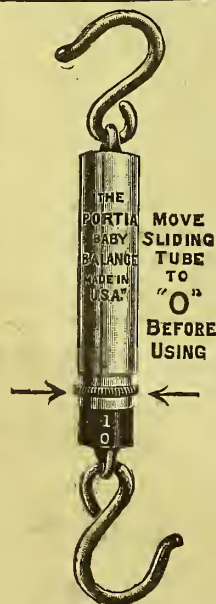


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NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price	Retail
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*LOSALL'S SALT (well advertised), tins	7 1/2 d.	5/6
" " " " " "	1/2	10/-
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*Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap. 13/6 per dozen boxes net. especially suitable for use in Eczema

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

Profits For You

That's what you're in business for. Handle the line of Toilet Preparations which sells quickest and at the largest margin of profit.

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1 Doz. Milkweed Cream	Retails for 2/- each	(2.00)	8/-
Doz. Velveola Souveraine (Face Powder)	" " 2/- "	(2.00)	8/-
Doz. Zodenta Paste	" " 1/- "	(1.00)	4/-
Doz. Rouge.,	" " 2/- "	(1.00)	4/-
Doz. Perfume, 1 oz. ass't. in fancy packages	" " 4/- "	(4.00)	16/-
		10.00	£2

Delivered prepaid Parcel Post. We will send advertising matter and samples packed with the goods.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, asking them to call at your store and get free our Guest Room Package, containing one each of the above in sample sizes, including perfume.

If more convenient to you, specify shipments from our Canadian Branch.

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Twenty-five years continuous advertising has made this trademark known wherever American and Canadian publications are read.

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USE THE

DEMON SEALING MACHINE

THE QUICKEST, SIMPLEST & SUREST METHOD OF PARCELLING.

Ask for particulars and samples, or, better still, our representative will be pleased to call and demonstrate.

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BEETHAM'S "LAROLA"

(Registered)

Is the Skin Tonic for 1917.

It is effective.

It is attractive.

It is price-protected.

It is well-advertised.

It sells readily.

It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, CHELTENHAM.

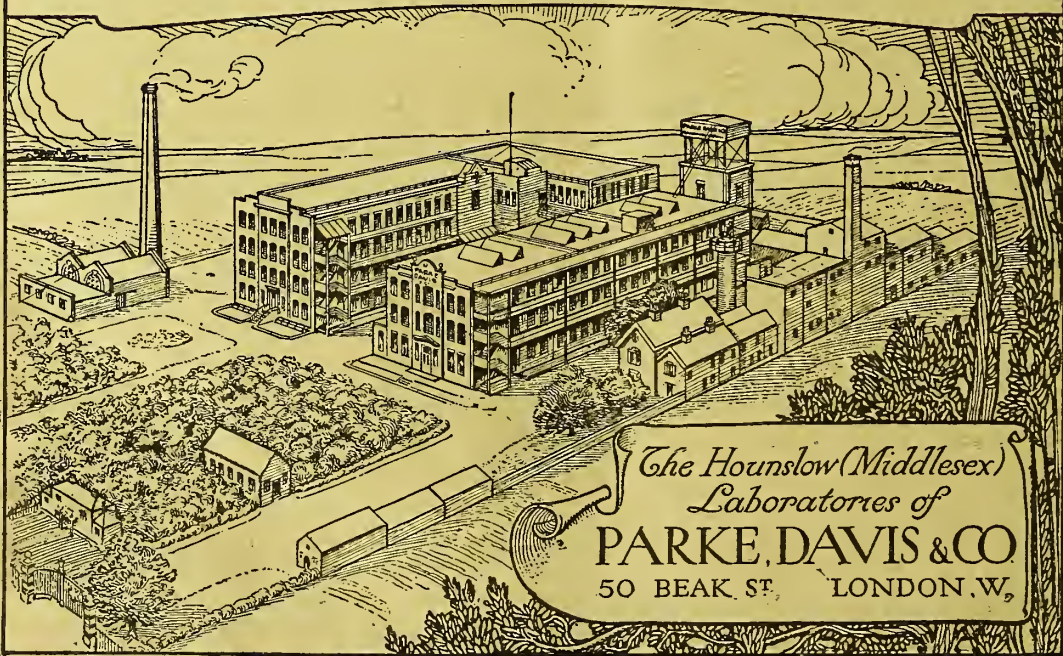
Extra Business

A preparation which is gaining in the public esteem is H_2O_2 . It has so many uses in the toilet and in the household that a steady demand may be created by introducing it to your customers.

Hydrogen Peroxide Solution, P., D. & Co.

is famed for its unequalled stability. Profits are protected, and, as it is made in England, prompt delivery is assured.

Send a card to-day for prices and
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PARKE, DAVIS & CO
50 BEAK ST. LONDON, W.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, JUNE 23, 1917

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED THE MONEY IS TELEGRAPHED at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.'

Everybody in the drug-trade knows that only bona-fide paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—DALSTON (Near).—Ready-money Business; established many years; held by vendor upwards of 25; now retiring; returns about £650; net profit £214; comfortable residence; terms, valuation of stock and fixtures; part payment entertained.

2.—LONDON (West End).—High-class Dispensing and Retail Business; returns about £1,200; gross profit between £650 and £700; the business is known to us, and we can recommend it; valuation terms.

3.—RICHMOND (Surrey), Near.—Very old-established Business; held by vendor many years, now retiring; returns about £870; profits above the average; first reasonable offer will be accepted.

4.—MIDDLESEX (Distant Suburb).—Good-class Business; capital position; returns about £2,000; intending investors with £1,100 at command will find this a sound concern; full investigation invited.

5.—Retail and Dispensing Business; situate in growing neighbourhood; returns exceed £500 yearly; corner shop; situate in close proximity to railway station; price about £300.

6.—TOTTENHAM.—Ready-money Business; returning, under Manager, £1,400 to £1,500 at good prices; books kept by accountant and stock taken annually; about £375 required to purchase, £200 on entry, and balance by instalments.

7.—LONDON (Southern Suburb).—Medium-class Family trade; well established; turnover averages £925; gross profit £355; comfortable residence; rent £45; sub-let £13; no near opposition; price £400, or valuation of stock and fixtures.

8.—HOME COUNTY (Health Resort).—Modern Pharmacy, situate in the principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

9.—WEST OF ENGLAND.—Vendor retiring; price £350, or best offer will secure a good-class Retail and Dispensing Business returning about £800 yearly, with scope for development under energetic management; further details on application.

10.—KENT (Good-class Suburb).—Established business; returns upwards of £1,400 yearly at fair prices; attractive shop, double-fronted; well-selected stock; rent £50 yearly; price £900.

11.—HEALTH RESORT (Within Easy Reach of London).—Established Business; capital situation; returns under management about £12 weekly; scope for development under personal supervision; attractive double-fronted shop with comfortable residence attached; price £250.

12.—HERTS (Borders of).—Ready-money Business; held by vendor many years; returns £20 per week; rent £40; comfortable residence, with garden; offer wanted; vendor invites the fullest investigation.

13.—HANTS.—Mixed Business; returns under assistant over £800 yearly; net profit £300; full investigation invited; reasonable offer would be accepted.

14.—SUSSEX.—For immediate Disposal, well-established Business returning between £700 and £750; profits about 50 per cent; commodious premises; rent £40 yearly; new lease will be granted; price £220; illness cause of sale.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.
ORRIDGE & CO., 53 LUDGATE HILL, LONDON, E.C.

BATTAM & HEYWOOD

(ESTD. 1837)

**CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXP. RT. STOCKTAKERS.**

Balance Sheets Prepared. Books Audited.

3 DAVIES STREET, BERKELEY SQUARE, W.

Telephone: GERRARD 2169.

BERDOE & FISH**VALUERS & TRANSFER AGENTS,****35 Jewry Street, Fenchurch Street, City.**

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—DEVON (Market Town).—Good-class Retail, Agricultural, and Photographic Business, under management and scope for increase; returns average £1,300; principal did £1,500; main road position; splendid premises; fully stocked; price simply valuation, about £900.

2.—SOUTHEND-ON-SEA.—For immediate Sale, through death; good-class Business; returns last year over £800; plenty of scope for increase; well-appointed Pharmacy, with good house attached; price £450 or valuation.

3.—SOUTH COAST.—Sound, unopposed Light Retail Business; returns under manager £600; plenty of scope for increase; rising town; low rent; modern fitted shop, fully stocked; price £375; strongly recommended.

4.—HERTS.—Good-class Light Country Retail, in best position of small market town; returns average £900; good profits; splendid house; own property; price £400 cash.

5.—BATH.—High-class Dispensing Business; owner retiring; returns £800; good profits; fine position; plenty of scope; price for quick sale £350 or first reasonable offer.

6.—LONDON, W.—High-class Dispensing Business for Private Disposal; returns between £2,000 and £2,500; excellent profits; prominent position; with scope for increase; fine opportunity for two smart men; price £1,100; references required.

7.—LONDON, N.—Genuine Cash Retail with N.H.I.; in same hands 24 years; now retiring; returns £800; net profit over £250; large, handsome shop; prominent corner position, and in younger hands would soon do £20 weekly; price £300 or valuation; half can remain.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

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ACCRINGTON DISTRICT (Lancashire).—For immediate Disposal through sudden death of owner, Chemist's Business and Drug Stores (established 69 years), with good living accommodation; exceptional opportunity to right man; £275 or valuation; might financially assist right man if desired; rent £27 10s. Apply Lupton, Solicitor, 57 Market Street, Manchester.

MIDLAND CITY.—Dispensing and Photographic Business; nicely fitted, electric light; main road; district being largely developed; no qualified opposition; returns average £2,500 at good prices; few Patents; big Drug and Sundries Stock; Insurance Prescriptions 6,000 year; profitable Agency; owner anxious to join Army; cheap to quick purchaser. Apply 272/25, Office of this Paper.

A CHANCE OF A LIFETIME.—Goodwill, Stock, Recipes, Fixtures, Lease, and 10 years' Agreement for the manufacture of a celebrated range of Boot Polishes; a sure fortune after the war; price £150 or offer; only wants seeing. Apply "Boot Polish" (272/36), Office of this Paper.

A N old-established Business; excellent position; low rent on lease; returns £2,000, with prospect of considerable increase; heavy stock; good medium all-the-year-round trade, price £1,400 cash. Full particulars, Shearman, 156 King Street, Great Yarmouth.

B USINESS for Disposal; good Farming district, Midlands; returns near £600; neglected through ill-health and want of capital; splendidly fitted shop; large house and garden, ware houses, etc.; pleasant town; market days; net rent only £14 sacrifice. Apply "Urgent," c/o Mr. J. Austin, Woodbine Cottage, Haughton, near Stafford.

F OR IMMEDIATE DISPOSAL.—Small Country Chemist's Business, about 40 miles from London; established over 100 years; no opposition within 4 miles; returns for last three years average about £700 per annum. Full particulars of Francis Nicholls, White & Co., 14 Old Jewry Chambers, London, E.C. 2.

T O be Sold as a going concern, situated in thickly populated neighbourhood, in Wimbledon, no opposition, modern-fitted Shop, with house; well stocked; under unqualified management; £11, could easily double; price, all at, £150, or nearest offer entertained for quick sale. Apply 61/46, Office of this Paper.

U NOPPOSED Business doing a good turnover, with huge prospects, offered to anyone who will put £50 down and balance by instalments; splendid chance for Chemist with little capital must sell on account of Managers. Apply 274/37, Office of this Paper.

£60.—LARGE corner double-fronted Shop, well fitted in mahogany, to Let; established 69 years; proprietor unqualified; leaving; no Panel, but extensive one available; returns last year £916; rent low; everything but Stock. Young, 73 West Ferry Road, Millwall, London, E.

£175.—CHEMIST'S Business; in good district; exceptional stand in centre of village; owner called up; sacrifice. Full particulars from F. G. Boden, Chemist, Micklehurst, Mossley Lanes.

TO LET.

OLD-ESTABLISHED (59 years) Chemist's Shop, House, and Premises to Let at Martinmas (or earlier by arrangement) owing to the retirement of present occupier; good country town central position; rent £45, on lease; may, if desired, be had as a going concern by taking the splendid Fixtures (Stock optional at less than a valuation; golden opportunity to a real live Chemist. Apply, Geo. Rydiard, 52 Main Street, Cockermouth.

FOR SALE.

FOR SALE.—Part or whole of complete mahogany Shop Fittings including Shop Rounds, Shelves, Drug Drawers, Show Cases, Scales, Carboys, etc. Also varied stock of Drugs, chiefly in small quantities. Owner has to join up. Cole, Chemist, Middleton Lanes.

N ATIONAL Cash Register for Sale; second-hand; suitable for any business; prints all details. Write for full particulars and price to F. King, 27 Chesterfield Gardens, Green Lanes, Harringay, N. 4.

3 OZ. Phenazone Tabs. 5 gr. 9s.; 6 oz. Phenazone Pulv., 20s. 3 x 15 gr. Suppos. Moulds, 5s. each; 2 doz. Celluloid Eggs, 4s.; 5 lb. Cera Flav., 10s.; 4 lb. Pulv. Rhei, 6s. 3d. 7 lb. Pulv. Marant Opt., 4s. 3d.; 8 oz. Bismuth Subgall., 5s. 6 oz. Hyd. Iodid. Rub., 5s.; 2 x large Split Skins, super. qual. 10s.; 8 oz. Pulv. Ipecac., 5s.; 2 oz. Ext. Opii, Sicc., 10s.; 2 lb. Acid. Cit., 7s.; 4 oz. Vanilline, 9s.; 13½ oz. Menthol, 10s. 2 lb. Hyd. Jc. Cret., 5s. 3d.; Kent's Gas Heat copper-lined, wood outside, Drying Oven; Kent's Ice Safe, both 26 x 30 x 25 ¼ each; combined Cabinet and Roll, Job; Dispensing Cabinet a Maws page 260, gas, water, and wash-up extra, cost £50, set £10; all good condition. B., Chemist, 97 Boro' High Street S.E. 1.

14 LB. of Saccharin Tablets, half-grain, 330 in 1 grain, 100s per lb.; 4 lb. or more at 95s.; post paid; cheque with order. Walton, Chemist, Batley Carr.

BUSINESSES WANTED.

BUSINESS wanted; returns £700 to £1,500; London or Suburbs. Particulars, in confidence, "Wilson" (273/32), Office of this Paper.

AGENCIES.

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AN additional first-class exclusive Agency desired; centrally situated office and good warehouse accommodation; bankers' reference if required; correspondence invited. Lyndwood & Co., 71 High Holborn, W.C.

AUSTRALIA.—Manufacturers' Representative of recognised standing, with Wholesale and Retail connection throughout Australia and New Zealand, desires to negotiate with British Manufacturers for representation, to commence now or after the war. Bank and other references upon request to 23/2, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.


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RESULTS

OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK JUNE 16 1917

NATURE OF ADVT	REPLIES
DISPENSER	21
LADY ASSIST.	16
QUAL.	9
ASSIST.	9
REPRESENT ^{VE}	8



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BERMONDSEY, S.E.—A qualified lady or gentleman to manage small Dispensing (N.H.I.) and Retail Branch; highest references essential. If resident in London, please write, making appointment for interview, giving full particulars of experience, etc., to Austins, Ltd., 196/202, Bermondsey Street, S.E. 1.

BIRMINGHAM (Near).—Young lady Assistant required for progressive Chemists' business; one who has had previous experience with a Chemist preferred; state salary required and when at liberty. "Staff" (273/102), Office of this Paper.

BIRMINGHAM.—Smart young lady required for Office of well-known firm; must have had experience in handling N.H.I. scripts and have had some experience in a Chemist's establishment; permanency. Apply 273/1, Office of this Paper.

BIRMINGHAM.—Assistants, qualified and unqualified; accurate Dispensers and obliging at Counter; good salary and hours. Apply, with full particulars, General Manager, Hedges (Chemists), Ltd., Dale End.

BOGNOR.—Wanted, as soon as possible, reliable Assistant; qualified or unqualified; lady or gentleman; if gentleman, must be ineligible; outdoors. Send full particulars age, salary, etc., to C. T. Cooper, Chemist, Bognor.

BRIGHTON.—Outdoors; competent Assistant, mainly for Dispensing; hours 9 to 7.30, Wednesday 9 to 9, Thursday 9 to 1, alternate Sundays duty 9 to 2 and from 6 to 8. Apply, with full particulars, stating age, height, salary required, and enclose photo if possible, J. Colby & Co., 101 Western Road, Brighton.

CORNWALL.—A capable Assistant (outdoors), lady or gentleman, wanted for an old-established Family and Dispensing business in a market town; short hours; no Sunday duty. Apply, with the usual particulars, to C. Wakeham & Son, Chemists, Helston.

COVENTRY.—Qualified Assistant wanted; must be ineligible for military service; state age, experience, salary required, and when disengaged. Bird, Chemist, Spon Street.

EASTBOURNE.—Permanency; Assistant, over military age, rejected, or low category, required within three weeks for high-class Business; must be a good Dispenser; no N.H.I.; good salary. Moss, Chemist, Grand Hotel Buildings, Eastbourne.

HARROGATE.—Manager wanted for high-class Business, either lady, or gentleman ineligible for military service; state salary required, experience, etc., and send photograph if possible; this is a good opening for a suitable person. M. Rogerson & Son, Ltd., 8 Darley Street, Bradford.

LIVERPOOL.—Elderly or middle-aged registered Assistant; comfortable post; Extractor preferred, but not essential. Apply 274/31, Office of this Paper.

LIVERPOOL, Suburb.—Assistant; outdoors; good-class Dispensing business; must be experienced; alternate Sunday duty; half-day weekly. Usual particulars (with photo if possible) to M. & R., 127a St. John's Road, Waterloo, Liverpool.

LONDON.—Qualified wanted for a few hours daily, not in the evenings; outdoors; light duties; suit elderly gentleman, lady, or part time. Apply, with usual particulars, to 274/26, Office of this Paper.

LONDON.—Manager required in first-class Dispensing business; must have undeniable references and large experience in Dispensing, Prescribing, Photography, and Buying; state age, full particulars, and when disengaged; liberal terms. Apply 273/17, Office of this Paper.

LONDON (CENTRAL).—Outdoors Assistant, ineligible, for Counter and Dispensing; easy hours. Frizell & Co., 1 Cranbourn Street, Leicester Square, W.C. 2.

LONDON (POPLAR DISTRICT).—Young lady Assistant required for progressive Chemist's establishment; permanency; must have had some Counter and Dispensing experience. "Poplar" (273/100), Office of this Paper.

LONDON, N.—Managing Assistant (ineligible for the Army), married, and to live over business; an experienced and capable man required. Please state full particulars, including salary (house provided) to C. N. Coles, Pharmacist and Qualified Optician, 804 High Road, Tottenham, N.

LONDON, N.E.—Young lady for Drug Store, to put up Stock and assist at Counter; one with some experience preferred, Wholesale or Retail. Grant, 33 Chatsworth Road, Clapton Park E. 5.

LONDON, S.W.—Wanted, qualified man, used to N.H.I. work; permanency. Reply, giving usual particulars, to "Scope" (271/30), Office of this Paper.

RETURNING PHOTOS, Etc.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

MANCHESTER.—Qualified Manager wanted for Branch; Light Retail and small N.H.I. Dispensing; middle-class district. Apply, stating age, salary expected, and full particulars, to Cuttford, Pharmacist, Langworthy Road, Salford.

MIDDLESBROUGH.—Two lady Dispensers, able to keep Books, for Doctors in Middlesbrough. Apply, stating salary and references, to Middleton & Co., Ltd., Chemists, Middlesbrough.

READING.—Wanted, qualified Assistant for Dispensing and Light General Retail; lady or gentleman, if the latter must be ineligible; indoors. Apply, stating experience, full particulars, and salary required, to F. Tunbridge, 39 Castle Street, Reading.

RHYL.—Assistant wanted for General Retail and Dispensing; capable and reliable; outdoors; ineligible. Apply, stating experience, reference, and salary, Grutton, Chemist, Rhyll.

ST. ANNES-ON-THE-SEA.—Lady Dispenser, with Hall qualification, for season; outdoors; four lady Assistants kept; useful and pleasant opportunity to obtain experience. Please state age, experience, references, salary required, and enclose photo (to be returned), J. H. Taylor.

SHREWSBURY.—Assistant; outdoors; close Monday, Tuesday, Wednesday 7 p.m., Thursday 1 p.m., Friday 8 p.m., Saturday 9 p.m.; no Sunday duty. Apply A. Williams, M.P.S., Chemist, Castle Street, Shrewsbury.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

THE GLOUCESTERSHIRE ROYAL INFIRMARY AND EYE INSTITUTION.—For the duration of the war, fully-qualified Dispenser (male), non-resident. Applications, stating age, qualifications, experience, and salary required, together with testimonials, to be forwarded to the Secretary, Royal Infirmary, Gloucester.

WESTON-SUPER-MARE.—Qualified and unqualified Assistants, ineligible for Army, required at once for Dispensing business; or ladies with experience; permanency; good prospects. Full particulars first letter to Alex. Bonner, Galen House, Weston-super-Mare.

WINCHESTER.—Wanted, qualified Manager; ineligible or over military age; good-class brisk business; good salary to suitable man; please send usual particulars and enclose photo. Eldred & Inge, Winchester.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (273/101), Office of this Paper.

ASSISTANT wanted; unqualified; elderly; useful; energetic; Shropshire. 265/8, Office of this Paper.

ASSISTANT, qualified or unqualified, for Retail and Dispensing business; ineligible; sole use of good house accommodation if desired; suit married man; state full particulars and salary required. Butcher, Curnow & Co., Ltd., Blackheath, S.E. 3.

ASSISTANT, male or female, wanted at once for Dispensing and Light Retail; must be a capable Dispenser; outdoors; easy hours. Full particulars as to salary required, etc., to Hampton, 86 Northgate Street, Gloucester.

ASSISTANT, now or in a few weeks' time, ineligible, for quick Counter trade; progressive salary and permanency to suitable man; send full particulars of salary required, references, experience, also photo (to be returned), knowledge of Photography and Window-dressing. Galloway, Blackpool.

ASSISTANT, unqualified, with good experience; ineligible for service; hours 9 a.m. till 8 p.m., Saturdays 9 p.m., 1 o'clock Thursdays; usual hours for meals. State salary required (outdoors) and further particulars to Messrs. Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, and 323 Walworth Road, London, S.E. 5.

BRANCH Manager wanted at once; must be over military age or ineligible. Apply, personally or by letter, stating salary required, when disengaged, and enclosing recent photograph, to Parke's Drug Stores, 65 Harwood Street, N.W.

BRANCH Manager wanted; ineligible or over military age; Glamorgan; Light Retail and N.H.I. Apply "Rhei" (274/24), Office of this Paper.

CITY Chemist has vacancy for Dispensing Assistant; must have had good experience and be ineligible for military service: £3 weekly; short hours; no Sunday work. Apply 272/2, Office of this Paper.

COMFORTABLE Home, offered in pleasant London Suburb (N.W.) to aged couple or elderly woman or maimed soldier, qualified, in return for nominal duties; wages according to time given. Apply 274/22, Office of this Paper.

COMPETENT Assistant, male or female, for good Country and Agricultural business; state full particulars, salary required, etc. Herbert Jenkins, Chemist, Braintree, Essex.

JUNIOR Assistant wanted for good Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace, W. 14. (Opposite West Kensington Station.)

LADY, fully qualified, for Dispensing and Counter work in good-class Business at a South Coast health resort. Apply, stating wages, etc., with photograph if possible, to "Valois" (273/25), Office of this Paper.

LADY Assistant; outdoors; mainly for Dispensing; previous practical experience essential. Frizell & Co., 1 Cranbourn Street, W.C. 2.

LADY Chemist required as Manager; General Retail and Dispensing; state usual particulars, salary, etc.; village business in Kent. Apply 274/370, Office of this Paper.

LOCUMS FOR PUBLIC INSTITUTIONS.—The Public Pharmacists' Association invite applications from registered Pharmacists available for this work. To save time, send references with application to Geo. W. Gibson, Hon. Sec., St. Pancras South Infirmary, N.W. 1.

LOCUM, qualified, outdoors, required for brisk Light Retail and Dispensing; whole or part of 8 weeks commencing about June 25th; close three nights at 7.30, Thursday at 1; no Sunday or night duty; good salary offered to capable man; in reply, please state full particulars, enclosing photo if possible (to be returned). Walter Reeson, 80 High Street, Erith, Kent.

MANAGER, qualified, lady or gentleman, outdoors, for good-class Retail and N.H.I. business in healthy Northern industrial town; no Sunday duty; rails paid of Manager engaged. Particulars, with salary, references, photo, and (if eligible) military position, to "Pharmacist," care Mr. Littler, "Edeale," 8 Delannays Road, Higher Crumpsall, Manchester.

MANAGER, qualified, required at once (ineligible) to take full charge; knowledge of Agricultural business essential. Apply, with full particulars, experience, age, references, and salary required, to Allen & Neale, King's Lynn.

MANAGER, qualified, required at once; outdoors; owner on active service. Apply, with full particulars, references, salary required, to Rovercroft & Co., 66 Week Street, Maidstone.

MANAGER for Richmond Hill (married preferred), to reside on premises; personal interview preferred. Apply Blanchford, Chemist-Optician, 76 High Street, Wimbledon, S.W. 19.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED Manager wanted for South Coast town; ineligible preferred; good salary and share of profit; must be smart and up-to-date business man; good Counterman and Window-dresser. Apply, stating salary required, when disengaged, experience, and fullest particulars, which will be treated in confidence, to 272/26, Office of this Paper.

QUALIFIED lady Dispenser wanted immediately for an old-established Practice in Lancashire; no Panel; kindly state age, qualifications, salary, references. Apply 270/33, Office of this Paper.

QUALIFIED Assistant, over military age; active; and accustomed to Counter trade; capable of taking charge; no Insurance work; hours 9 to 8, Wednesday 1, Saturday 9; one hour's duty every other Sunday night; good salary; outdoors, dinner and tea hour; state age, height, salary required. Davies, Chemist, Enfield Wash, Middlesex.

QUALIFIED Manager wanted by Gibson, Manufacturing Chemist, Gooch Street, Birmingham. State fully experience, age, salary required, and when at liberty, first letter.

QUALIFIED Dispenser required; lady or gentleman. Apply, giving full particulars, to A. J. Bullen Cooper, Cooper, Son & Co., Ltd., 80 Gloucester Road, S.W.

QUALIFIED Manager wanted immediately for good-class Business; permanent or temporary; gentleman or lady; good progressive salary to right person; moderate hours; state particulars of experience and salary required. R. H. Tootill, Pharmaceutical Chemist, Altrincham.

QUALIFIED Assistant wanted for the middle of July; short hours and light duties. Foster & Dallas, 1 Lavender Hill, Clapham, S.W.

QUALIFIED Manager required for Dispensing and Light Retail business; good salary, to suitable person. Apply to A. J. Hall, Pharmacist, 196 Belsize Road, Kilburn, N.W.

SALESMAN and Dispenser wanted; unqualified; must be ineligible or over military age. Apply, personally or by letter, stating salary required and when disengaged, and enclosing, if possible, recent photograph, to Parke's Drug Stores, 65 Harwood Street, N.W.

TWO qualified Assistants are required for Branch Shops by Poingdestre & Truman; must be ineligible for Army; no Sunday duty; no N.H.I. Dispensing. Apply 71 Old Kent Road, S.E.

WANTED, unqualified Locum, lady or gentleman, last fortnight in August. Full particulars and salary (outdoors), to S. S., 436 High Road, Streatham, S.W. 16.

WANTED at once, lady Assistant for Dispensing; must be capable; outdoors. Apply, with all particulars, to Mitten & Co., Chemists, Hurstpierpoint, Sussex.

WANTED, a man to make himself generally useful in Dispensary Laboratory; one with previous experience of Drug trade preferred. Apply, stating wages required, to "Pharmacist," West London Hospital, Hammersmith, W. 6.

WANTED, Manager (qualified), for progressive Business; salary and commission; good prospects; permanency. W. Bannison, Ph.C., 133 King's Road, Chelsea, S.W. 3.

YOUNG lady as Counter Assistant; experienced. Apply S. F. Goss, Ltd., 460 Oxford Street, W. 1.

YOUNG lady Dispenser required; one with Counter experience preferred; must have Apothecaries' Hall qualification. Apply, personally, any morning except Saturday, Parke's Drug Stores, 65 Harwood Street, N.W.

WHOLESALE.

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MANCHESTER.—Charles Midgley, Ltd., require Assistant for manufacturing Pharmaceutical Preparations, etc., and putting up orders; ineligible.

ALLEN & HANBURY'S, LTD., Bethnal Green, E. 2, require an Assistant for their Order Department; knowledge of Drugs essential; must be able to read varied Drug orders, and be a quick and accurate worker; students for the Hall will be considered. Apply, with full particulars of age, experience, and salary expected, to F. L. D., c/o above.

ASSISTANT, with either Wet or Dry Counter experience. Apply, with usual particulars, to Hedges (Chemists), Ltd., Birmingham.

ASSISTANT in Surgical Instrument business in provinces. Address, stating age, duties accustomed to, and wages expected, 61/59, Office of this Paper.

LABORATORY Assistant required by provincial firm of Wholesale Manufacturing Druggists; must have experience in the manufacture of Emulsions, Syrups, etc., and ineligible for military service. Apply, giving usual particulars, to 265/14, Office of this Paper.

MIXER wanted; man used to Manufacture of Toilet Preparations. Send full particulars salary, experience, etc., in writing, to "Kolyos," 43 Shoe Lane, E.C.

PACKER wanted for Postal work. Apply Manager, 164 Piccadilly, W. 1.

QUALIFIED lady Assistant required for light and instructive employment by a leading firm of Manufacturing Chemists; preference given to one who has had Retail experience; hours 9 a.m. to 6 p.m., and 9 a.m. to 1 p.m. Saturdays. Apply, enclosing photograph (to be returned), stating age, experience, and salary required, to 62/19, Office of this Paper.

WANTED, Pill-maker; practical man; ineligible; preferably one accustomed to making by machines; static experience. Apply 61/70, Office of this Paper.

WET-COUNTER Assistant (male or female) required in City Wholesale Druggists' Warehouse. Apply, stating full particulars of age, experience, and wages expected, to 275/30, Office of this Paper.

WOMEN, young, wanted; used to Filling, Capsuling, Labelling, etc. Apply, stating full particulars, to Dakin Bros., Ltd., Wholesale Druggists, 82 Middlesex Street, E. 1.

WORKS Assistant, ineligible for the Army, to make Proprietary and Pharmaceutical Preparations on a manufacturing scale. Write, stating age, experience, and salary desired, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; **6d.** for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

CHINA.—Wanted, thoroughly competent Assistant; ineligible for military service; must have had good experience in high-class Retail business; liberal terms; three years' agreement; passage paid out and home; preference given to man who speaks one or two languages. Reply to Durant, Radford & Co., Ltd., Billiter Buildings, E.C.

CHINA.—One or two thoroughly competent Assistants (ineligible for military service); age 21-30; must have had good experience in high-class Retail business; liberal terms; two years' agreement; passage paid out and home. Address, "China" (274/4), Office of this Paper.

ENGLISH Assistant urgently wanted; one speaking French and accustomed to serving a wealthy clientèle. Address Paul Grandmont, 28 rue Bab-Azoun, Algiers.

SITUATIONS WANTED.

1s. for 12 words or less; **6d.** for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

ABOUT six hours' daily, seaside or healthy country district, not too far from London, required by advertiser (35), tall, gentlemanly, exempt; ability and integrity unquestioned; long and varied Retail experience; would do Doctor's Dispensing. Oakley, 18 Canonbury Square, N. 1.

AS Locum; permanency; excellent experience, references. "Statim," 26 Portland Road, Holland Park Avenue, W.

ASSISTANT or Manager; unqualified; over age; married; 30 years' experience, 17 sole proprietor large business; strict abstainer; energetic, capable; knowledge of Photography; South Coast desired. Young, 73 West Ferry Road, London, E.

ASSISTANT; competent; energetic; quick and accurate Dispenser; fluent French and Italian; City and West-End experience (16 years). Address "H. G." (275/31), Office of this Paper.

CHEMIST'S daughter; aged 19; two years' Counter experience and N.H.I. Dispensing; Yorkshire, West Riding, preferred. Offers to 273/23, Office of this Paper.

DISENGAGED end of month; Locum or regular; unqualified; 48. Desmond, 37 Upper Kennington Lane, S.E.

DISPENSER-BOOKKEEPER.—Rector's daughter, qualified, thoroughly experienced, seeks permanent post, Doctor or Institution; highest references. "Dispenser," 54 de Freville Avenue, Cambridge.

DISPENSER and Bookkeeper, over military age, requires re-engagement to medical man; thoroughly efficient and experienced; excellent testimonials and references; five years in last, four in previous situation; salary moderate (outdoors). H. Brice, 9 Church Road, St. Thomas, Exeter.

DISPENSER; qualified; 43; Hospital experience; disengaged 23rd; ineligible. Apply 273/18, Office of this Paper.

EVENING WORK; West-End experience; Dispensing or Counter; over military age; disengaged after 6.30 p.m.; W. or S.W. district preferred. Apply 269/19, Office of this Paper.

JUNIOR, ineligible, requires situation in N.W. or N. "Cocci," 58 Essex Road, Willesden, N.W.

LAD, 17½ years, tall and smart, experienced in Photography, Developing, and Gas Printing, understands Kodak Tanks, is used to Shop work, free to accept engagement till November 9th (18th birthday). Apply (usual particulars), "B. C. R." (273/36), Office of this Paper.

LADY Dispenser (Hall) seeks post; Doctor, Institution, or part-time Chemist; one year's experience; Bookkeeping, First-aid, and Nursing certificates; perfect French; country within 20 miles London preferred. E. Bailey, 53 Leinster Square, W. 2.

LADY Dispenser requires post in or near Woolwich; Hall qualification; testimonials for private and public work. W. E. R., 162 Devonshire Road, S.E. 23.

LADY Dispenser, Apothecaries' Hall, requires post, Doctor or Institution; experienced; good references; would take Locum work. Miss Redfern, Braemore, Gratwicke Road, Worthing.

LADY, good Store experience, desires post; London; Locum or permanency. Elliott, 163 Camden Road, N.W. 6.

LADY, Apothecaries' Hall certificate, requires post as Dispenser; Doctor, Chemist, or Institution; Manchester or close vicinity. Unwin, 86 Great King Street, Macclesfield.

LOCUM; qualified; abstainer; free July 9-24; West preferred, not essential. Apply 274/5, Office of this Paper.

LOCUM; 25 years' Dispensing experience; Hospital or Doctors preferred; £3; permanency considered; Croydon or London; as Druggist's Dispenser. C. S., 19 Rockmount Road, S.E. 19.

LOCUM-MANAGER; Major; varied experiences; disengaged 2nd fortnight in July until August 2nd; again after August 18th. "Fifty," 4 William Street, Devonport.

MANAGER DURING WAR.—Active, modern Pharmacist, experienced in sole charge of first-class businesses, wishes to manage really good, live Business for the duration of the war; strictest investigation both ways. Apply "Modern" (275/39), Office of this Paper.

QUALIFIED; 41; married; good all-round experience; disengaged June 29th; salary £4 5s. Apply 271/32, Office of this Paper.

QUALIFIED; ineligible; steady business preferred; experienced. H., 264 Wellington Road, Perrybarr, Birmingham.

QUALIFIED Pharmacist desires post as Manager or Dispenser to Hospital; over military age; good all-round experience; country preferred. Apply 275/20, Office of this Paper.

RELIABLE Dispenser and Surgery Attendant, 29, disengaged July 15th, requires Locum or permanency with Doctor or Institution; last situation 5 years with Doctor. Write M. Birch, 25 Osborn Street, E. 1.

SITUATION wanted by lady as Dispenser to Doctor or at Hospital. Hall qualification; Leicestershire preferred if possible. Apply, in first instance, to Mr. Goodess, Pharmacist, 25 Market Street, Leicester.

SITUATION required by Lady for Counter work; seven years' previous experience. M. Williams, 37 Burgoyne Road, Harringay, N.

SATURDAY afternoons, 3 to 9; engagement wanted; qualified; experienced; Dispensing or General Help. Apply 275/34, Office of this Paper.

TEMPORARY or permanency; disengaged June 30th; qualified; competent, reliable; well recommended; ineligible. 274/35, Office of this Paper.

UNQUALIFIED; over age; all-round experience; outdoors; London. Morris, 45 Adolphus Street, New Cross, S.E.

UNQUALIFIED; age 38; married; rejected; Manager or Assistant; situation in country required, near London preferred. Apply 273/39, Office of this Paper.

WANTED, July, lady Dispenser; 3 to 8 daily. Apply "Dispenser," 70 Lower Addiscombe Road, Croydon.

YOUNG lady; Junior Improver or Dispenser to a medical man; 1½ years' experience; indoors. Particulars to Miss C. M. Dawes, 18 Brighton Road, Crawley, Sussex.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BELFAST (North of Ireland).—Traveller open to accept good Side Lines; Toilet Articles, Proprietaries, etc.; splendid connection; references. Apply 273/15, Office of this Paper.

CHEMIST, Major qualification, over military age, requires responsible position in Manufacturing Laboratory for Toilet Preparations; first-class reference and credentials. Apply 275/35, Office of this Paper.

EXPERIENCED Warehouse, Office, General Help, or Travelling; London only; fair wage wanted; ineligible; to save useless interviews state about salary offered. Apply 275/29, Office of this Paper.

MANUFACTURING Chemist, well up in Galenicals, Syrups, Toilet Preparations, wishes to join good London firm; best references; military exempted. Apply "Chemist," 56 Lamb's Conduit Street, W.C.

SMART man wants to represent first-class House Counties of Durham, Cumberland, Northumberland, and Westmorland, for duration of war; good opportunity for firm whose traveller has been called up. Apply 275/21, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green. Shares for Sale (free of commission, subject).—100 A. J. Whites Ord., 5s. 3d.; 100 Boots Pure Drug 7½ Pref., 24s.; 30 Lewis & Burrows 6½ Pref., 13s. 10d.; 15 Parkes Drug 6½ Pref., 14s.; 100 Bovril 5½ Pref., 18s. 4d.; 200 Del., 8s. 4d.; 4 Camwal Ord. and 10 Pref., 65s. 6d. for the lot; 200 Farrow's Bank, 10s. paid, 9s. C.D.

Wanted (subject).—Allenbury Pref.; Wright Layman Pref.; Lever C. Pref.; Idris Debentures.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES.—Large quantity of All-Glass Counters (second-hand), Silent Salesman, and upright Cases with glass shelves; most useful and paying adjuncts to any Pharmacy; make splendid show; moderate prices; all other Pharmacy Fittings ready for immediate use. PHILIP JOSEPH & SONS, LTD., 93 Old Street, London, E.C. 1.

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BEST Results. QUICK Returns.

6 Exposures, any size, 4d. net. | 12 Exposures, any size, 8d. net.

Price List on application to:

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4 Norlington Road, Leytonstone, E. 11.

YOUR CUSTOMERS WILL BE PLEASED WITH RESULTS
IF THE ORDERS ARE GIVEN TO US

PAPER

White Demy, Yellow Wove (Blue), Brown Tissue, White and Coloured Do., Small Hands (Whitey-Brown) Sulphites, Krafts, and English Browns. Twine in 8 oz. balls @ 10/6 per doz. Parcel String in 1 lb. balls @ 15/- per doz. Samples sent on receipt of card stating size and weight of paper required. Cash with order.

D. W. BULL,

4 Churchill Road, Homerton, E. 9.

**ALL CHEMISTS
SHOULD STOCK**

ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quak Seller. Big Profits. Quarter of a Century's Reputation. "ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3. Order through your Wholesale Drug House.
D. M'CLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.
Wholesale Prices on Application.

TO WHOLESALE CHEMISTS, SHIPPERS, etc.

We compress tablets from your own ingredients or otherwise, plain or coated. Large quantities dealt with quickly. Superior Machinery and Scientific Control.

Lowest quotations for Cascara tablets in bulk.

R. GIBBINS & CO., 1 Birkbeck Road, Kingsland, LONDON, N.E.

HIGH PRICES FOR CAMERAS

Original Cost Price for Vest Pocket Kodaks, R.R. Lens, and Watch Pocket Carbinets. Try us for Single Models, Dealers' Stocks, Ensignettes, &c. We reply promptly and courteously, and goods are returned at once, CARRIAGE PAID, if no business is done.

WATSONS, 84 High St., Sheffield.

Saccharin Shortage

We offer for immediate delivery

CONCENTRATED SUGAR TABLETS

Sweeter and more pleasant than Saccharin.

5,000	...	13/9	per 1000
20,000 & over	...	13/6	" "
50,000	"	13/5	" "
Bottles, 100's, 18/6 per doz., 3 doz. lots.			
"	"	18/3	" 2 gross "
"	"	500's 88/6	" 3 doz. "
"	"	87/-	" 1 gross "

LARGER QUANTITIES SPECIAL PRICES.
CASH WITH ORDER.

**LEVERS, Elver Works,
Moreton Street, Manchester.**

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

INUNDATED WITH REPLIES.

A provincial Pharmacist (269/33), renewing his subscription, writes on June 14, 1917, as follows:—

"The results from one sixpenny advt. in Exchange Column last week have more than paid for this new subscription. I was simply inundated with replies."

BOOKS AND PERIODICALS.

"C. & D." posted Tuesdays; 6s. 6d. year. Anderson, Chemist, Crouch End, N.

DRUGS AND CHEMICALS.

56 LB. Pearl Ash, 2s. per lb. or nearest offer. Ingleston, 17 Yardley Street, Sheffield.
TABLETS, Easton's Syrup 3p. or 3l. coated, about 1,000 of each. Offer wanted. Apply 274/6, Office of this Paper.
5 LB. Winchester S. Vanilla Opt., 3s. 6d. per lb., carriage paid; sample free. Apply 270/35, Office of this Paper.
2 OZ. Resorcin, 7s. per oz.; 8 oz. Zinc Benzoat., 1s. 3d. per oz.; 4 oz. Balsam Peru, 1s. per oz. "Pharmacist," 239 Roundhay Road, Leeds.
ORANGE Shellac, 7 lb. at 2s., 14 lb. at 1s. 11d.; Lin. Belladonna Meth., 4 lb. at 6s.; Paraldehydum., 1 lb. at 11s.; all carriage paid and cash with order. Lee, Chemist, Middlesbrough.

OPTICAL AND PHOTOGRAPHIC.

OPTICIAN'S Outside Sign (eyeglass). Particulars from "Pharmacist," 239 Roundhay Road, Leeds.

SHOP FITTINGS.

ABOUT gross 20-oz. W.M. stoppered Bottles, clean, used as rounds, 9s. doz., or offers for whole. Also 2 x 3 gall. pear-shaped Carboys, 10s. 6d. Hulmes, Chemists, Huddersfield Road, Oldham.

MISCELLANEOUS.

BARGAIN.—Dispensing Screen, Carboys; good condition, "Radix," 60 Strafford Road, Barnet.
10 x 1s., 11 x 2s., 6 x 3s. 6d. Tozama; 36 x 2s., 70 x 3s. 6d. Hale's Wine, non-alcoholic; half retail price; carriage forward. Apply 271/28, Office of this Paper.
QUININE Pessary Mould for Sale, good as new, for 12; 10-minim Suppos. Mould, torpedo shape, for 12. W. F., 17 Warrender Road, N.

WANTED.

WANTED, Saccharin Tablets. Meyer, Chemists, Gravelly Hill, Birmingham.
NO. 10 Wedgwood Mortar (only); lowest price. Anderson, Chemist, Crouch End, N.
WANTED, $\frac{1}{2}$ oz. Lundborg bottles; any quantity; state price. Carter, 13 Albion Square, Dalston, E. 8.
SEPARATING Funnels, various sizes. Also Glass Jars, with taps. Full particulars to 271/1, Office of this Paper.
BICROMATE Batteries (two); state price and condition. Harries, Chemist, Heathfield Road, Birmingham.
SACCHARINE wanted. State quantity, strength, and price to R. Gibbins & Co., 1 Birkbeck Road, Kingsland, E. 8.
COLLAPSIBLE Tube Filler, large size, for ointment, tooth paste, etc. Elite Toilet Co., 57 Pershore Street, Birmingham.
REQUIRED, any quantity of Chinosol Powder. State price to Box 358, c/o Hooper & Batty, Ltd., 15 Walbrook, E.C. 4.
SULPHUR Flowers, commercial, about 2 cwt., cheap. Also 1 cwt. Epsoms; com. wanted. Anthony, Chemist, Bedford.
WANTED, a Miniature Soap Plant, for use at exhibitions, or name of makers. Address W. F. Notman, 281 Clapham Road, S.W. 4.
MIXING and Sifting Machines for powders and creams. Also Laboratory Utensils. L. Mirener, 48 Cranhurst Road, Cricklewood, N.W.
OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.
WANTED, Perfume Spray Mounts, nickel or gilt. Also metal or vulcanite Atomiser Mounts. Particulars, with lowest cash price, to R. E. B., 31 Intake Road, Bradford.
WANTED, second-hand Cash Register (National), total-adder and detail-strip printer; good condition. Particulars to F. Skipp, 153 Sheperton Road, New North Road, Islington, N. 3.
FORMULA for good Garden Pest Destroyer, wireworm, greenfly, ants, etc; state whether poisonous, harmful to plants, approximate making cost. Russell, 27 Store Street, London, W.C. 1.
WANTED, Glass Bottles, white, 2 to 4 oz., screw caps preferred though not essential. Also Tins for boot polishes, liquid metal polish, and health salts, etc. Samples and prices, "Brytenup" Polish Works, Preston.
WANTED, Foot's Reclining Chair, "Model 235"; Carter's Bed-table; Globe-Wernicke Bookcase; modern works, Skin Diseases, Tropical Medicine, Diseases Children; state authors, dates. Also Squire, Lucas-Stevens. Jones, Settlement, Ockbrook, Derby.

Minor Experiences.

(Galen Place.)

DISPENSING.—Mr. Shephard handed me the following paper:

Strychninæ	...	...	...	gr. ʒb
Pepsin.	...	...	...	gr. iv.
Ft. pil. ij. Argent. Mitte xviii.				
Liq. potassæ. Make 250 c.c. and take its.s.g.				
Pot. iodidi	...	...	...	gr ij.
Tr. cannab. ind.	...	...	...	ʒv.
Inf. calumbæ ad	...	...	...	3ss.
3ss. 4tis horis. Mitte 3viii.				
Emp. plumbi	...	...	...	3ss.
Ichthyol.	...	...	...	3ij.
Ol. olivæ	...	...	...	3vj.
Ft. ung.				
Atropinæ sulph.	...	...	...	gr. ʒss
Aq. steriliz. ad	...	...	...	ʒx.
Fiat inject. hypod. Mitte 3ij.				

CHEMISTRY.—In the afternoon, the paper given to me was: "(1) Find the alkaloid contained in liquid No. 16 and determine the amount present; (2) analyse qualitatively the powder given." The alkaloid was strychnine, and the powder was lead oxide and potassium chloride.

Next day I received a welcome notice to present myself for the oral, where the first subject was CHEMISTRY, with Professor Jackson. The questions included: What is valency? What is meant by the pressure of aqueous vapour? The law of gaseous diffusion? What is the effect of temperature and pressure on the volume of a gas? How make cupric oxide from metal copper? How make ethylene? What bodies does it form with chlorine? Commercial process for manufacture of oxalic acid? Effect of heating it with sulphuric acid? How make salicylic acid (natural and artificial)? Questions followed on the oxides of phosphorus, and after I had stated how to separate a mixture of zinc and aluminium I was told I had done very well.

BOTANY.—Here I was examined by Dr. Flitsch. I was first shown two flowers, which were woad-fruit and Christmas rose. This led to questions on the natural orders *Umbelliferae* and *Ranunculaceae*. I was then shown three slides, which included the ovary of a lily, the transverse section of a leaf, and aleurone grains. I was asked the difference between a rhizome and a root and questions about inulin and starch. What is the effect of light on plant-growth? A few more questions followed.

My next subject was PRESCRIPTION-READING with Mr. Allen. A simple calculation was given, then a few prescriptions and some doses, including acid, hydrocyan. dil., ac. carbolic., ac. carbol. liq., liq. arsen., liq. Donovan., liq. arsen. hydrochlor., ac. tannic., ext. nucis vom. liq., hyd. iodidi rub.

PHARMACY.—Mr. Shephard gave me two pharmacopœial preparations for recognition—tr. camph. co. and pulv. rhei co. Questions followed with regard to the ingredients contained in them and their preparation. How make emp. bellad., glyc. plumbi subacet., tr. kino, liq. trinitrin., syrup. pruni virg., spt. æther. nit. (and the method of estimation)? A few strengths were asked.

MATERIA MEDICA with Mr. Wilson. Among the specimens shown were aconite-root, shellac, nux-vomica seeds, calumba-root, pimento-seeds, colchicum-seeds, black-mustard seeds, white-mustard seeds, grains of Paradise, ergot, cinnamon-bark, krameria, with a few questions on the active ingredients. I was told I had done very well, and in about five minutes the President congratulated me on passing, and wished me the best of luck in the future.—*Minor Man* (90/14).

Things Worth Knowing.

By "Hugo."

Fused calcium chloride, placed inside cases or cabinets containing plated or steel surgical instruments, etc., will prevent rusting by absorbing moisture from the enclosed air.

The easiest and quickest method of emulsifying ext. filicis maris is to shake up in a bottle with a little of the vehicle and a few drops of tr. senegæ, subsequently adding the remainder of the vehicle gradually.

To prevent oil rounds and shelves from becoming messed and unsightly, tie a collar of lint round the neck of the bottles. This absorbs the inevitable drip, prevents the bottles from sliding, and keeps the oil-shelf clean.

Military Tribunals' Decisions.

The following cases have been decided since our last issue:

ABERAYRON.—Conditional exemption has been granted to Mr. William Jones, of the Aeron Pharmacy.

ABERYSTWYTH.—Conditional exemption has been granted to Mr. John Owen Jones, managing the pharmacy of Lieutenant B. Taylor Lloyd, of Great Darkgate Street.—Mr. Robert Ellis, Ph.C., applied for exemption till September 20 for his apprenticeship, Lewis John Evans. Mr. Ellis's two sons are in the Army, and Mr. Ellis said he considered he was himself doing war-work. Exemption was granted to October 8.

BATH.—The military offered no objection to Mr. J. S. Ismay, 21 Belgrave Crescent, student at the School of Pharmacy, having exemption till August 1 to enable him to sit for his Final examination. The appeal was dismissed, but Mr. Ismay is not to be available till August 1.—In the application of the military for review of the case of Mr. W. B. Lloyd, manager in Davies & John's pharmacy, Old Bond Street, there had been an adjournment for the military to consult with the Insurance Committee. General Bradshaw stated that at that conference opinion was divided. The case now was further adjourned for a month for a suitable substitute to be found.

BOSTON.—Mr. A. Shepperson, chemist and druggist, Kington, appealed for his assistant, Leonard Peters. Exemption was granted until October 11.—Mr. George H. S. Payne, Ph.C., Old Leake, who was granted exemption until January 1, 1918, is the only chemist between Boston and Wainfleet, and has a large agricultural and dispensing business.

GILLINGHAM (KENT).—In the matter of the military appeal for review in the case of Mr. Charles Ernest Beveridge, 10 Stuart Road, chemist and druggist, the Assistant Military Representative announced that the military had withdrawn their opposition. Mr. Beveridge's conditional exemption consequently stands good.

GUILDFORD.—Appealed for by Mr. W. S. Taverner, chemist and druggist, of High Street, R. L. Quirk, chemist and druggist, has been granted a final two months.

KIMBOLTON.—Six months' exemption has been allowed to Mr. Henry Jones Morgan, chemist and druggist.

LAMBETH.—Three months' exemption was granted to two employees engaged in the export department of Scrubbs & Co., Ltd.

MANSFIELD.—Mr. Henry Marsden Wharmby, Stanton Place, was granted conditional exemption so long as he remains a partner in J. J. Wharmby & Sons.

MITCHAM.—A Mitcham chemist and druggist, the owner of a one-man business, who said his weight was 6 st. 7 lb., asked for permission to go before a special medical board. He said a soldier on active service carries a pack weighing 90 lb., exclusive of the rifle. As the applicant weighs only 91 lb. the military authorities are actually asking him to carry considerably more than his own weight. He was formerly rejected, but has now been passed for general service. The case was adjourned pending negotiations between the Surrey Insurance Committee and the War Office.

ROCHDALE.—Mr. William Highley, chemist and druggist, claimed for Mr. S. Hebden. Mr. Hebden was put back to September 30.—Mr. F. M. Coupe, manager and salesman for a manufacturing chemist, was put back to August 31.

ROCHESTER.—Three months' exemption has been granted to H. C. H. Freestone, chemist and druggist, appealed for by Ostler & Co., of Star Hill.

SALISBURY.—Mr. William David Rowe, chemist's assistant, Salisbury, was exempted till August 30.

SHEFFIELD.—Exemption until December 31 has been granted to Mr. Lawrence Leadbeater, assistant with Mr. J. B. Pater. He had been re-examined and placed in a lower medical category.

SOUTHWARK.—P. H. Galloway, Ltd., 154-156 Walworth Road, obtained two months' further exemption of a foreman in charge of the despatch department.—Wm. Toogood, Ltd., druggists' sundriesmen, 77 Southwark Street, applied for the further exemption of their representative. Three months' exemption was granted.

ITALIAN QUICKSILVER.—During 1916 the exports from Italy amounted to 766,500 kilos, against 853,200 kilos in 1915 and 760,300 kilos in 1914.

"BETTER CUT THE STRING NEXT TIME," remarked a pharmacist the other day in dismissing a female whose visits to the counter had been frequent and costly. The advice was tendered sarcastically after the woman had had jerked from her hand a "captive" bottle of perfume which she expected to be enabled to add to her former thefts.



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CARNATION. Intensely fragrant, exactly resembles the flower ...	8/6 oz.
GERANIUM. Much stronger than the natural perfume ...	4/- oz.
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NEROLI. Of exquisite flavour; very useful in making Eau de Cologne	8/6 oz.
ORANGE BLOSSOM. A very delicate perfume, though not so powerful as some of the series ...	9/6 oz.
PINK. An exquisite product true to the flower ...	8/6 oz.
ROSE. One of the finest and most delicate Synthetic Ottos on the market. The "Zinyl" Brand passes the most discriminating tests, and is almost indistinguishable from genuine Otto, and though much stronger, costs but a fraction of the price.	15/- oz.
ROSE RED. This is the Red Rose of Provence ...	15/- oz.
ROSE WHITE... ..	13/6 oz.
SWEET PEA. A novelty recalling the delightful odour of this favourite flower ...	10/- oz.
SYRINGA. Also a new product ...	10/- oz.
VIOLET. A universal favourite, in general demand ...	10/6 oz.
VIOLET DE PARME. A variation of the preceding Otto ...	15/- oz.
WALLFLOWER. Recalls this beautiful old-fashioned flower ...	10/6 oz.



H. E. STEVENSON & CO.
122 Great Suffolk Street, London, S.E. 1

JUNKET TABLETS

ESSENCE OF RENNET TABLETS

THE SEASON HAS
NOW COMMENCED!

See that you hold full stocks.

The demand will be greater than ever owing to the cost of eggs and the restrictions on farinaceous products.

Tubes holding 16 tablets **4/6** per dozen.

Each tablet sufficient for 1 pint of milk.

SHOWCARDS FREE.

Name and Address on 3 dozen.



JUNKET POWDER

Isn't this a dainty dish to set before a guest?



Devonshire Junket made with our

JUNKET POWDER

Delicious with all Stewed Fruit.

PRICE 6d. - Makes 15 Quarts of Junket.

PER TUBE.

In boxwood measure cups.
A more highly concentrated preparation.

Preferred by some retailers to the tablet form.

Each measureful sufficient for 1 quart of milk.

Tube contains sufficient for 20 quarts.

PRICE **7/6** PER DOZ.

Retail 1/- per tube.

Name and Address on 3 dozen.

SHOWCARDS FREE.



The Standard Tablet & Pill Co.
HOVE, ENG.
LIMITED